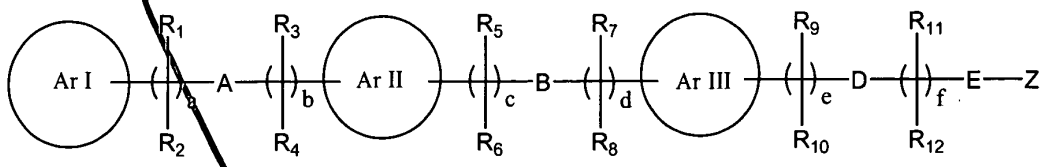
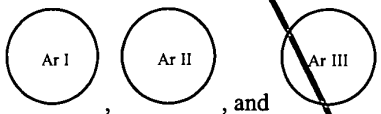
What is claimed is:

1. A compound of formula I



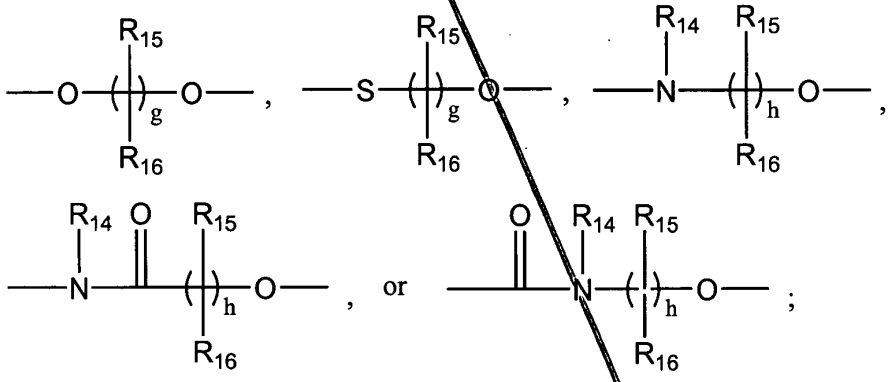
(I)

wherein:



, , and are independently aryl, fused arylcycloalkenyl, fused arylcycloalkyl, fused arylheterocyclenyl, fused arylheterocyclyl, heteroaryl, fused heteroarylcycloalkenyl, fused heteroarylcycloalkyl, fused heteroarylheterocyclenyl, or fused heteroarylheterocyclyl;

A is -O-, -S-, -SO-, $-SO_2$-, $-NR_{13}$-, -C(O)-, $-N(R_{14})C(O)$-, $-C(O)N(R_{15})$-, $-N(R_{14})C(O)N(R_{15})$-, $-C(R_{14})=N$-, a chemical bond,



B is –O-, -S-, -SO-, $-SO_2$-, $-NR_{17}$-, a chemical bond, ethynylene, -C(O)-, $-N(R_{18})C(O)$-, or $-C(O)NR_{18}$-;

D is –O-, -S-, $-NR_{19}$-, a chemical bond, ethynylene, $-N(R_{20})C(O)$-, -C(O)-, or $-C(O)N(R_{20})$-;

E is a chemical bond or an ethylene group;

a is 0-4;

b is 0-4;

c is 0-4;

d is 0-5;

e is 0-4;

f is 0-6;

g is 1-4;

h is 1-4;

R_1, R_3, R_5, R_7, R_9, and R_{11}, are independently hydrogen, halogen, alkyl, carboxyl, alkoxycarbonyl or aralkyl;

R_2, R_4, R_6, R_8, R_{10} and R_{12}, are independently $-(CH_2)_q-X$;

q is 0-3;

X is hydrogen, halogen, alkyl, alkenyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroaralkyl, hydroxy, alkoxy, aralkoxy, heteroaralkoxy, carboxyl, alkoxycarbonyl, tetrazolyl, acyl, acylHNSO$_2$-, -SR$_{23}$, Y^1Y^2N- or Y^3Y^4NCO-;

Y^1 and Y^2 are independently hydrogen, alkyl, aryl, aralkyl or heteroaralkyl, or one of Y^1 and Y^2 is hydrogen or alkyl and the other of Y^1 and Y^2 is acyl or aroyl;

Y^3 and Y^4 are independently hydrogen, alkyl, aryl, aralkyl or heteroaralkyl;

Z is $R_{21}O_2C$-, $R_{21}OC$-, cyclo-imide, -CN, $R_{21}O_2SHNCO$-, $R_{21}O_2SHN$-, $(R_{21})_2NCO$-, $R_{21}O$- 2,4-thiazolidinedionyl, or tetrazolyl; and

R_{19} and R_{21} are independently hydrogen, alkyl, aryl, cycloalkyl, or aralkyl;

R_{13}, R_{17}, R_{19} and R_{23} are independently $R_{22}OC$-, $R_{22}NHOC$-, hydrogen, alkyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, heteroaralkyl, or aralkyl;

R_{14}, R_{15}, R_{16}, R_{18} and R_{20} are independently hydrogen, alkyl, aralkyl, carbonyl, or alkoxycarbonyl;

or R_{14}, and R_{15} taken together with the carbon and nitrogen atoms through which they are linked form a 5 or 6-membered azaheterocyclyl group; or

when a is 2-4, then vicinal R_1 radicals taken together with the carbon atoms to which the R_1 radicals are linked form an ethylene group;or

when b is 2-4, then vicinal R_3 radicals taken together with the carbon atoms to which the R_3 radicals are linked form an ethylene group; or

when c is 2-4, then vicinal R_5 radicals taken together with the carbon atoms to which the R_5 radicals are linked form an ethylene group; or

when d is 2-5, then vicinal R_7 radicals taken together with the carbon atoms to which the R_7 radicals are linked form an ethylene group; or

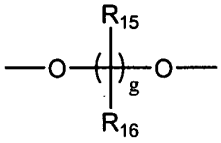
when e is 2-4, then vicinal R_9 radicals taken together with the carbon atoms to which the R_9 radicals are linked form an ethylene group; or

when r is 2-6, then vicinal R_{11} radicals taken together with the carbon atoms to which the R_{11} radicals are linked form an ethylene group; and

R_{22} is hydrogen, alkyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, heteroaralkyl, or aralkyl; or a pharmaceutically acceptable salt thereof, an N-oxide thereof, a hydrate thereof or a solvate thereof.

2. A compound according to claim 1 wherein Ar I is optionally substituted aryl, optionally substituted azaheteroaryl, or optionally substituted fused arylheterocyclenyl; Ar II is optionally substituted aryl, optionally substituted heteroaryl, or optionally substituted fused arylheterocyclenyl; and Ar III is optionally substituted aryl, optionally substituted heteroaryl, optionally substituted fused arylheterocyclalkyl or optionally substituted fused arylheterocyclenyl.

3. A compound according to claim 1 wherein a = 1 or 2; R_1 and R_2 is hydrogen; A is a chemical bond; and b = 0.

4. A compound according to claim 1 wherein a = 0; A is  ; R_{15} and R_{16} are hydrogen; g is 1, 2, or 3; and b = 0.

5. A compound according to claim 1 wherein a = 0; A is $-NR_{13}-$, b = 1, R_3 and R_4 are hydrogen.

6. A compound according to claim 1 wherein a = 2; vicinal R_1 radicals taken together with the carbon atoms to which the R_1 radicals are linked form an ethylene group; R_2 is hydrogen; A is a chemical bond; and b=0.

7. A compound according to claim 1 wherein a = 1, 2 or 3; R_1 and R_2 are hydrogen; A is -O-; and b = 0.

8. A compound according to claim 1 wherein a = 1; R_1, R_2, R_3 and R_4 are hydrogen; A is -O-; and b = 1.

9. A compound according to claim 1 wherein c = 1 or 2; R_5 and R_6 are hydrogen or alkyl; B is a chemical bond; and d = 0.

10. A compound according to claim 1 wherein c = 2; vicinal R_5 radicals taken together with the carbon atoms to which the R_5 radicals are linked form an ethylene group; R_6 is hydrogen; B is a chemical bond; and d=0.

11. A compound according to claim 1 wherein c = 0 or 1; R_5 and R_6 are hydrogen; B is –O-; and d = 0 or 1.

12. A compound according to claim 1 wherein c = 0; B is $-C(O)-$ or $-S(O)_2-$; d = 1 and R_7 and R_8 are independently hydrogen or alkyl.

13. A compound according to claim 1 wherein e = 0; f = 0; D and E is a chemical bond; Z is $R_{21}O_2SHNCO-$, and R_{21} is phenyl.

14. A compound according to claim 1 wherein e = 0; f = 0 or 1; D and E is a chemical bond; Z is tetrazolyl, NH_2CO- or $-CO_2R_{21}$; and R_{21} is hydrogen or lower alkyl.

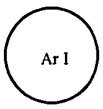
15. A compound according to claim 1 wherein e = 0; f = 0 or 1; D is –O- or a chemical bond; E is a chemical bond; and Z is tetrazolyl, NH_2CO- or $-CO_2R_{21}$; and R_{21} is hydrogen or lower alkyl.

16. A compound according to claim 1 wherein e = 0; f = 1; D is –O- or a chemical bond; E is a chemical bond; R_{11} and R_{12} are hydrogen or alkyl; and Z is tetrazolyl, NH_2CO- or $-CO_2R_{21}$; and R_{21} is hydrogen or lower alkyl.

17. A compound according to claim 1 wherein e = 2, then vicinal R_9 radicals taken together with the carbon atoms to which the R_9 radicals are linked form an ethylene group; f = 0; D and E is a chemical bond; and Z is $-CO_2R_{21}$, and R_{21} is hydrogen.

18. A compound according to claim 1 wherein e = 0; f = 3; D is -O-; E is a chemical bond; R_{11} and R_{12} are hydrogen or alkyl, or at least one of R_{11} is carboxyl or alkoxycarbonyl; Z is tetrazolyl, or $-CO_2R_{21}$; and R_{21} is hydrogen or lower alkyl.

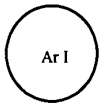
19. A compound according to claim 1 wherein e = 0; f = 1, 2, or 3; D is -C(O)-; E is a chemical bond; R_{11} and R_{12} are hydrogen or alkyl; Z is tetrazolyl or $-CO_2R_{21}$; and R_{21} is hydrogen or lower alkyl.

20. A compound according to claim 1 wherein 

is an optionally substituted quinolinyl, quinoxalinyl, quinazolinyl, isoquinolinyl, *N*-alkyl-quinolin-4-onyl, quinazolin-4-onyl, benzoxazolyl, benzimidazolyl, benzothiazolyl, benzofuranyl, benzothiophenyl, indolinyl oxazolyl, thiazolyl, oxadiazolyl isoxazolyl, imidazolyl, pyrazol-yl, thiadiazolyl, triazolyl, pyridyl pyrimidinyl, pyrazinyl, pyridazinyl, phenyl, or napthalenyl group, wherein the substituent is a

ring system substituent as defined herein, more preferably a substituent selected from the group consisting of phenyl, substituted-phenyl, thienyl, substituted thienyl, cycloalkyl, lower alkyl, branched alkyl, fluoro, chloro, alkoxy, aralkyloxy, trifluoromethyl and trifluoromethyloxy.

A2 cont

21. A compound according to claim 1 wherein 

is unsubstituted quinolin-2-yl, 3-substituted quinolin-2-yl, 4-substituted quinolin-2-yl, 6-substituted quinolin-2-yl or 7 substituted quinolin-2-yl; an unsubstituted quinozalin-2-yl, 3-substituted quinozalin-2-yl, 6-substituted quinozalin-2-yl or 3,6-disubstituted quinozalin-2-yl; unsubstituted quinazolin-2-yl, 4-substituted quinazolin-2-yl or 6-substituted quinazolin-2-yl; unsubstituted isoquinolin-3-yl, 6-substituted isoquinolin-3-yl or 7-substituted isoquinolin-3-yl; 3-substituted-quinazolin-4-on-2-yl; *N*-substituted quinolin-4-on-2-yl; 2-substituted-oxazol-4-yl or 2,5 disubstituted-oxazol-4-yl; 4-substituted oxazol-2-yl or 4,5-disubstituted-oxazol-2-yl; 2-substituted thiazol-4-yl or 2,5-disubstituted thiazol-4-yl; 4-substituted thiazol-2-yl or 4,5-disubstituted-thiazol-2-yl; 5-substituted-[1,2,4]oxadiazol-3-yl; 3-substituted-[1,2,4] oxadiazol-5-yl; 5-substituted-imidazol-2-yl or 3,5-disubstituted-imidazol-2-yl; 2-substituted-imidazol-5-yl or 2,3-disubstituted-imidazol-5-yl; 3-substituted-isoxazol-5-yl; 5-substituted-isoxazol-3-yl; 5-substituted-[1,2,4] thiadiazol-3-yl; 3-substituted-[1,2,4]-thiadiazol-5-yl; 2-substituted-[1,3,4]-thiadiazol-5-yl; 2-substituted-[1,3,4]-oxadiazol-5-yl; 1-substituted-pyrazol-3-yl; 3-substituted-pyrazol-5-yl; 3-substituted-[1,2,4]-triazol-5-yl; 1-substituted-[1,2,4]-triazol-3-yl; 3-substituted pyridin-2-yl, 5-substituted pyridin-2-yl, 6-substituted pyridin-2-yl or 3,5-disubstituted pyridin-2-yl; 3-substituted pyrazin-2-yl, 5-substituted pyrazin-2-yl, 6-substituted pyrazin-2-yl or 3,5 disubstituted-pyrazin-2-yl; 5-substituted pyrimidin-2-yl or 6-substituted-pyrimidin-2-yl; 6-substituted-pyridazin-3-yl or 4,6-disubstituted-pyridazin-3-yl; unsubstituted napthalen-2-yl, 3-substituted napthalen-2-yl, 4-substituted napthalen-2-yl, 6-substituted napthalen-2-yl or 7 substituted napthalen-2-yl; 2-substituted phenyl, 4-substituted phenyl or 2,4-disubstituted phenyl; unsubstituted -benzothiazol-2-yl or 5-substituted-benzothiazol-2-yl; unsubstituted benzoxazol-2yl or 5-substituted-benzoxazol-2yl; unsubstituted -benzimidazol-2-yl or 5-substituted-benzimidazol-2-yl; unsubstituted -thiophen-2yl, 3-substituted -thiophen-2yl, 6-substituted -thiophen-2yl or 3,6-disubstituted-thiophen-2yl; unsubstituted -benzofuran-2-y, 3-substituted-benzofuran-2-yl, 6-substituted-benzofuran-2-yl or 3,6-disubstituted-benzofuran-2-yl; 3-substituted-benzofuran-6-yl or 3,7-disubstituted-benzofuran-6-yl, wherein the substituent is a ring system substituent.

22 A compound according to claim 21 wherein Ar I is substituted by a substituent selected from the group consisting of phenyl, substituted-phenyl, thienyl, substituted thienyl, cycloalkyl, lower alkyl, branched alkyl, fluoro, chloro, alkoxy, aralkyloxy, trifluoromethyl and trifluoromethyloxy.

23. A compound according to claim 1 wherein R_1 and R_2 are hydrogen; a = 1; A is –O-; and b = 0.

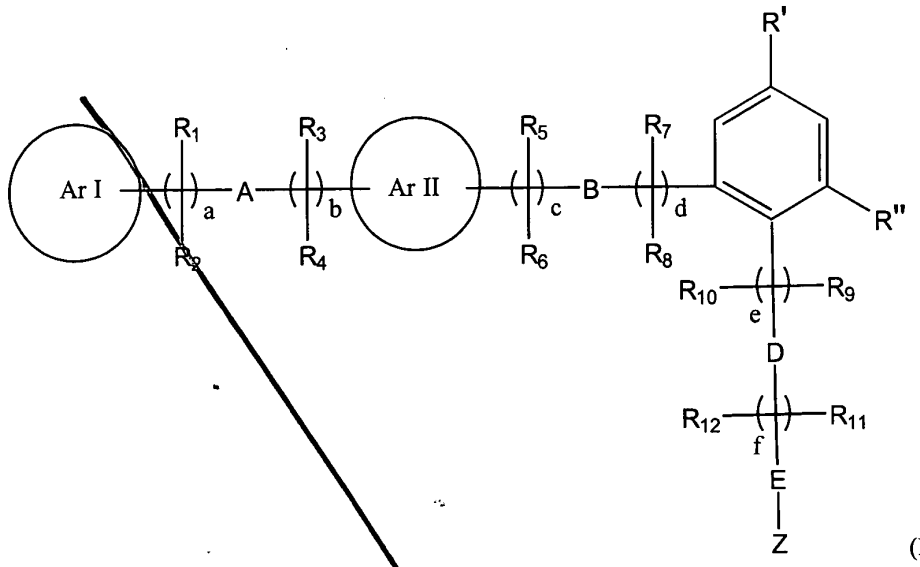
24. A compound according to claim 1 wherein R_1 and R_2 are hydrogen; a = 2; A is –O-; and b = 0.

25. A compound according to claim 1 wherein a = 0; A is –O- or $-NR_{13}-$; R_{13} is hydrogen or alkyl; R_3 and R_4 are both independently hydrogen; and b = 1.

26. A compound according to claim 1 wherein a = 0; A is –O- or $-NR_{13}-$; R_{13} is hydrogen or alkyl; R_3 and R_4 are both independently hydrogen; b = 1; and Ar I is 3-substituted quinolin-2-yl, 4-substituted quinolin-2-yl, 6-substituted quinolin-2-yl, 7 substituted quinolin-2-yl, unsubstituted quinoxalin-2-yl, 3-substituted quinoxalin-2-yl, 6-substituted quinoxalin-2-yl, 3,6-disubstituted quinoxalin-2-yl, unsubstituted quinazolin-2-yl, 4-substituted quinazolin-2-yl, 6-substituted quinazolin-2-yl, unsubstituted isoquinolin-3-yl, 6-substituted isoquinolin-3-yl, 7-substituted isoquinolin-3-yl, 4-substituted oxazol-2-yl, 4,5-disubstituted-oxazol-2-yl, 4-substituted-thiazol-2-yl, 4,5-disubstituted-thiazol-2-yl, 5-substituted -imidazol-2-yl, 3,5-disubstituted-imidazol-2-yl, 1-substituted-pyrazol-3-yl, 3-substituted-pyrazol-5-yl, 3-substituted pyridin-2-yl, 5-substituted pyridin-2-yl, 6-substituted pyridin-2-yl or 3,5-disubstituted pyridin-2-yl, 3-substituted pyrazin-2-yl, 5-substituted pyrazin-2-yl, 6-substituted pyrazin-2-yl, 3,5 disubstituted-pyrazin-2-yl, 5-substituted pyrimidin-2-yl, 6-substituted-pyrimidin-2-yl, 6-substituted-pyridazin-3-yl, 4,6-disubstituted-pyridazin-3-yl, unsubstituted-benzothiazol-2-yl, 5-substituted-benzothiazol-2-yl, unsubstituted-benzoxazol-2-yl, 5-substituted-benzoxazol-2-yl, unsubstituted benzimidazol-2-yl, 5-substituted-benzimidazol-2-yl, 3-substituted-benzofuran-6-yl or 3,7-disubstituted-benzofuran-6-yl.

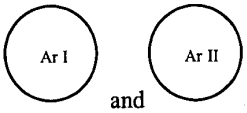
27. A compound of formula (Ia)

A3 cont



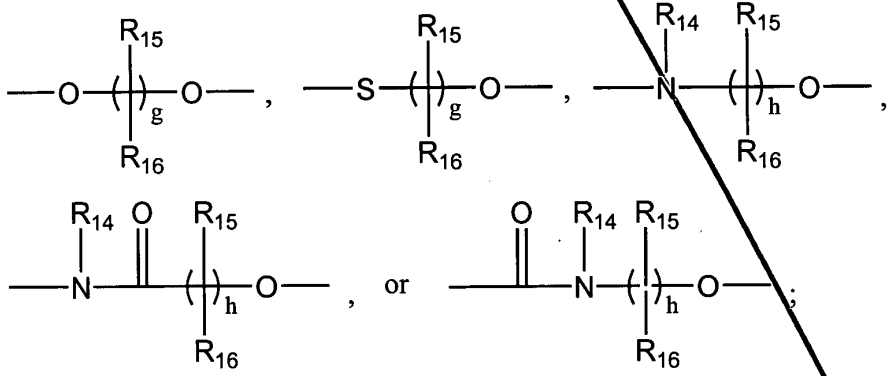
(Ia)

wherein:



are independently aryl, fused arylcycloalkenyl, fused arylcycloalkyl, fused arylheterocyclenyl, fused arylheterocyclyl, heteroaryl, fused heteroarylcycloalkenyl, fused heteroarylcycloalkyl, fused heteroarylheterocyclenyl, or fused heteroarylheterocyclyl;

A is -O-, -S-, -SO-, -SO_2-, -NR_{13}-, -C(O)-, -$N(R_{14})C(O)$-, -$C(O)N(R_{15})$-, -$N(R_{14})C(O)N(R_{15})$-, -$C(R_{14})$=N-, a chemical bond,



B is –O-, -S-, -SO-, -SO_2-, -NR_{17}-, a chemical bond, ethynylene, -C(O)-, -$N(R_{18})C(O)$-, or –$C(O)NR_{18}$-;

D is –O-, -S-, -NR_{19}-, a chemical bond, ethynylene, -$N(R_{20})C(O)$-, -C(O)-, or –$C(O)N(R_{20})$-;

E is a chemical bond or an ethylene group;

a is 0-4;

b is 0-4;

c is 0-4;

d is 0-5;

e is 0-4;

f is 0-6;

g is 1-4;

h is 1-4;

R_1, R_3, R_5, R_7, R_9, and R_{11}, are independently hydrogen, halogen, alkyl, carboxyl, alkoxycarbonyl or aralkyl;

R_2, R_4, R_6, R_8, R_{10} and R_{12}, are independently $-(CH_2)_q-X$;

q is 0-3;

X is hydrogen, halogen, alkyl, alkenyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroaralkyl, hydroxy, alkoxy, aralkoxy, heteroaralkoxy, carboxyl, alkoxycarbonyl, tetrazolyl, acyl, acylHNSO$_2$-, -SR$_{23}$, Y^1Y^2N- or Y^3Y^4NCO-;

Y^1 and Y^2 are independently hydrogen, alkyl, aryl, aralkyl or heteroaralkyl, or one of Y^1 and Y^2 is hydrogen or alkyl and the other of Y^1 and Y^2 is acyl or aroyl;

Y^3 and Y^4 are independently hydrogen, alkyl, aryl, aralkyl or heteroaralkyl;

Z is $R_{21}O_2C$-, $R_{21}OC$-, cyclo-imide, -CN, $R_{21}O_2SHNCO$-, $R_{21}O_2SHN$-, $(R_{21})_2NCO$-, $R_{21}O$- 2,4-thiazolidinedionyl, or tetrazolyl;

R' and R" are ring system substituents;

R_{19} and R_{21} are independently hydrogen, alkyl, aryl, cycloalkyl, or aralkyl;

R_{13}, R_{17}, R_{19} and R_{23} are independently $R_{22}OC$-, $R_{22}NHOC$-, hydrogen, alkyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, heteroaralkyl, or aralkyl;

R_{14}, R_{15}, R_{16}, R_{18} and R_{20} are independently hydrogen, alkyl, aralkyl, carbonyl, or alkoxycarbonyl;

or R_{14}, and R_{15} taken together with the carbon and nitrogen atoms through which they are linked form a 5 or 6-membered azaheterocyclyl group; or

when a is 2-4, then vicinal R_1 radicals taken together with the carbon atoms to which the R_1 radicals are linked form an ethylene group;or

when b is 2-4, then vicinal R_3 radicals taken together with the carbon atoms to which the R_3 radicals are linked form an ethylene group; or

when c is 2-4, then vicinal R_5 radicals taken together with the carbon atoms to which the R_5 radicals are linked form an ethylene group; or

when d is 2-5, then vicinal R_7 radicals taken together with the carbon atoms to which the R_7 radicals are linked form an ethylene group; or

when e is 2-4, then vicinal R_9 radicals taken together with the carbon atoms to which the R_9 radicals are linked form an ethylene group; or

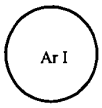
when f is 2-6, then vicinal R_{11} radicals taken together with the carbon atoms to which the R_{11} radicals are linked form an ethylene group; and

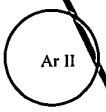
R_{22} is hydrogen, alkyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, heteroaralkyl, or aralkyl; or

a pharmaceutically acceptable salt thereof, an N-oxide thereof, a hydrate thereof or a solvate thereof.

28. A compound according to claim 27

wherein



and


are independently aryl, fused arylcycloalkenyl, fused arylcycloalkyl, fused arylheterocyclenyl, fused arylheterocyclyl, heteroaryl, fused heteroarylcycloalkenyl, fused heteroarylcycloalkyl, fused heteroarylheterocyclenyl, or fused heteroarylheterocyclyl;

c+d = 1 or 2;

B is –O-;

R_5, R_6, R_7, R_8 are independently hydrogen;

e = 0;

f = 0;

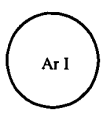
D and E are a chemical bond;

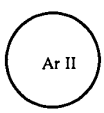
Z is $R_{21}O_2C$-, $R_{21}OC$-, cyclo-imide, -CN, $R_{21}O_2SHNCO$-, $R_{21}O_2SHN$-, $(R_{21})_2NCO$-, $R_{21}O$- 2,4-thiazolidinedionyl, or tetrazolyl;

R' is lower alkyl, halo, alkoxy, aryloxy or aralkyl; and

R" is lower alkyl or halo.

29. A compound according to claim 27 wherein



and


are independently aryl, fused arylcycloalkenyl, fused arylcycloalkyl, fused arylheterocyclenyl, fused arylheterocyclyl, heteroaryl, fused heteroarylcycloalkenyl, fused heteroarylcycloalkyl, fused heteroarylheterocyclenyl, or fused heteroarylheterocyclyl;

c+d = 1 or 2;

B is –O-;

R_5, R_6, R_7, R_8 are independently hydrogen;

e = 0;

f = 0;

D and E are a chemical bond;

Z is $-CO_2H$;

R' is lower alkyl, halo, alkoxy, aryloxy or aralkyl; and

R" is lower alkyl or halo.

30. A compound according to claim 27 wherein

a = 0-2;

b = 0-1;

A is -O- or $-NR_{13}$-;

c+d = 1 or 2;

B is -O-;

R_1, R_2, R_3, R_4 R_5, R_6, R_7, and R_8 are independently hydrogen;

R_{13} is hydrogen, $R_{22}OC$-, or alkyl;

e = 0;

f = 0;

D and E are a chemical bond;

Z is $-CO_2H$;

R' is lower alkyl, halo, alkoxy, aryloxy or aralkyl; and

R" is lower alkyl or halo.

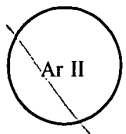
31. A compound according to claim 27 wherein

a = 1 or 2;

A is -O-;

b = 0;

R_1, R_2, R_7 and R_8 are independently hydrogen;



is optionally substituted phenyl;

c = 0;

B is -O-;

d = 1;

e = 0;

f = 0;

D and E are a chemical bond;

R' is hydrogen, halo or benzyloxy;

R" is lower alkyl, preferably methyl;

Z is $-CO_2H$.

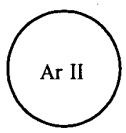
32. A compound according to claim 27 wherein:

a = 1 or 2;

A is -O-;

b = 0;

R_1, R_2, R_5 and R_6 are independently hydrogen;



is optionally substituted phenyl;

c = 1;

B is -O-;

d = 0;

e = 0;

f = 0;

D and E are a chemical bond;

R' is hydrogen, halo or benzyloxy;

R" is lower alkyl, preferably methyl;

Z is $-CO_2H$.

33. A compound according to claim 27 wherein:

a = 1 or 2;

A is -O-;

b = 0;

R_1, R_2, R_7, R_8, R_{11} and R_{12} are independently hydrogen;

is optionally substituted phenyl;

c = 0;

B is -O-;

d = 1;

e = 0;

f = 1;

D and E are a chemical bond;

R' is halo;

R" is lower alkyl, preferably methyl;

Z is $-CO_2H$.

34. A compound according to claim 27 wherein:

a = 1;

A is -O-;

b = 0;

c = 0-1;

B is -O-;

d = 0 or 1, wherein c+d = 1 or 2;

e = 0;

f = 0;

D and E are a chemical bond;

R' is hydrogen, aralkoxy, or halo;

R" is lower alkyl, preferably methyl;

Z is $-CO_2H$.

35. A compound according to claim 27 wherein:

a = 1;

A is -O-;

b = 0;

c = 0;

B is -O-;

d = 1;

e = 0;

f = 0;

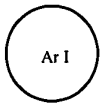
D and E are a chemical bond;

R' is hydrogen;

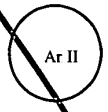
R" is lower alkyl;

Z is $-CO_2H$.

36. A compound according to claim 27 wherein:



and



are aryl or heteroaryl;

a = 1;

A is -O-;

b = 0;

c = 0;

B is -O-;

d = 1;

e = 0;

f = 0;

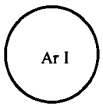
D and E are a chemical bond;

R' is hydrogen;

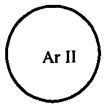
R" is lower alkyl;

Z is $-CO_2H$.

37. A compound according to claim 27 wherein:



is optionally substituted azaheteroaryl;



is optionally substituted phenyl;

a = 1;

A is -O-;

b = 0;

c = 0;

B is -O-;

d = 1;

e = 0;

f = 0;

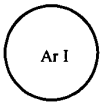
D and E are a chemical bond;

R' is hydrogen;

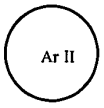
R" is lower alkyl;

Z is CO_2H.

38. A compound according to claim 27 wherein:



is optionally substituted quinolinyl, or a 5-membered heteroaryl group wherein the heteroaryl group is substituted by optionally substituted phenyl or optionally substituted cyclohexyl;



is optionally substituted phenyl;

a = 1;

A is –O-;

b = 0;

c = 0;

B is –O-;

d = 1;

e = 0;

f = 0;

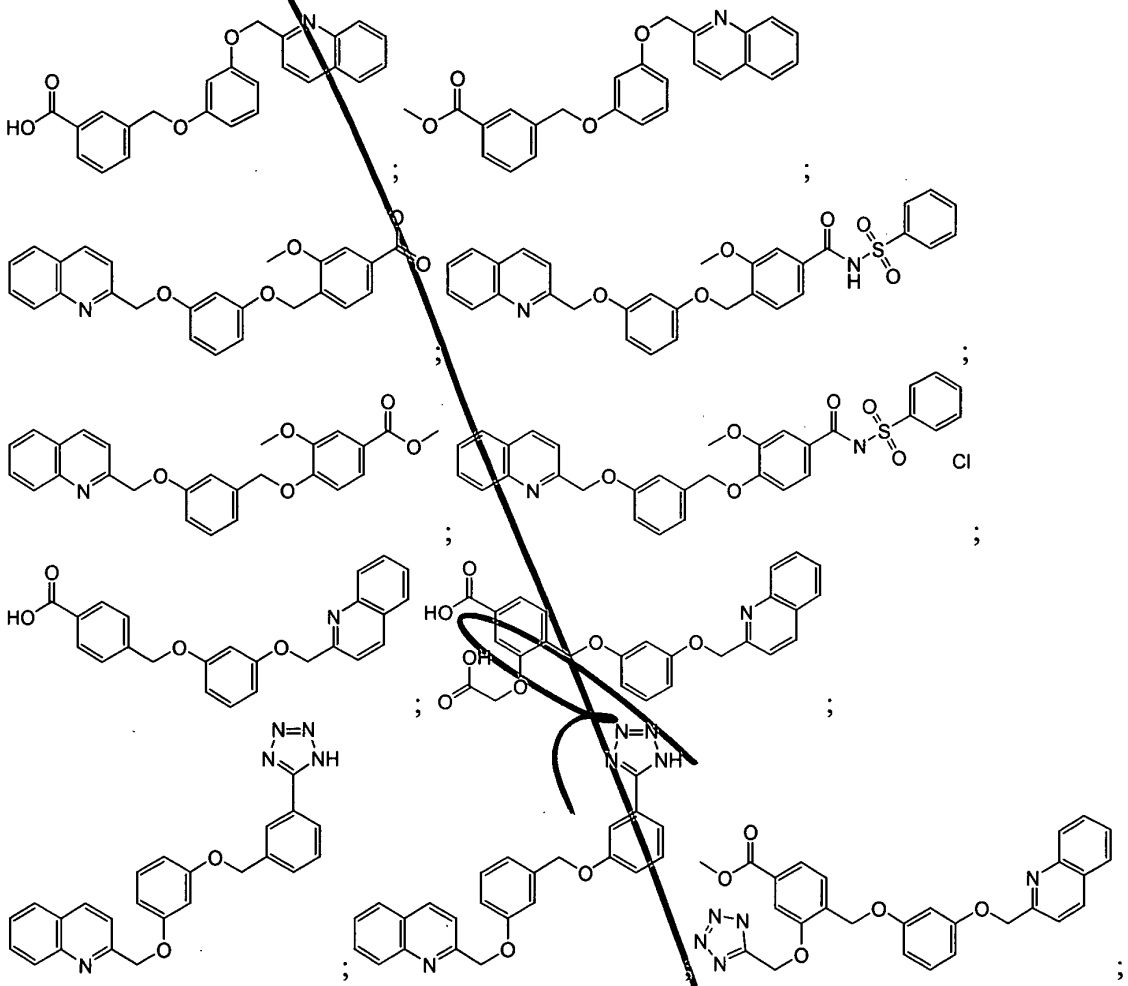
D and E are a chemical bond;

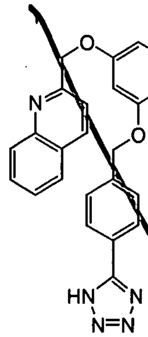
R' is hydrogen;

R" is lower alkyl;

Z is CO_2H.

39. A compound according to claim 1 selected from the group

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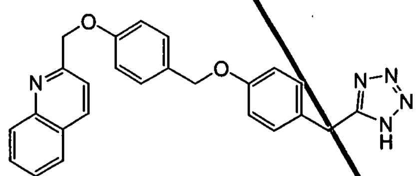
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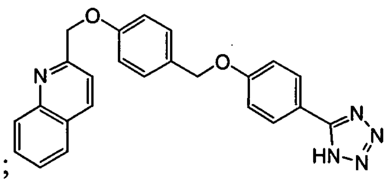
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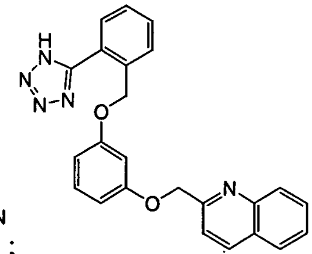
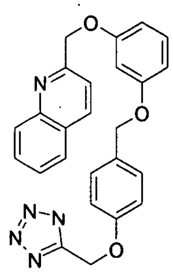

;

154-156°C

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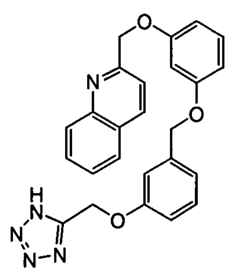
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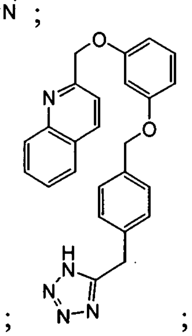
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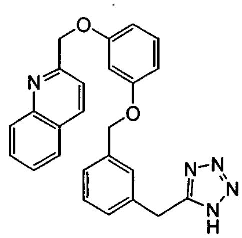
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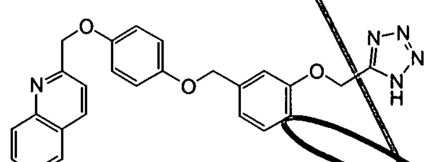
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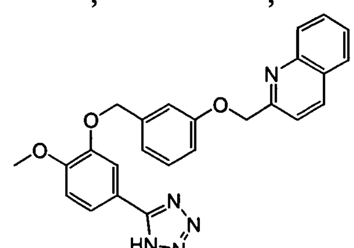
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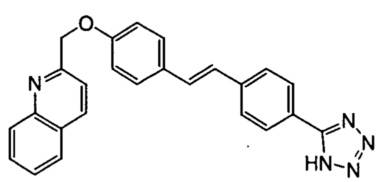
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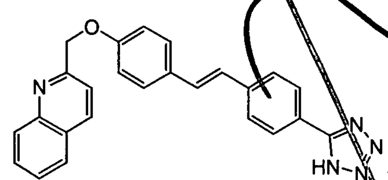
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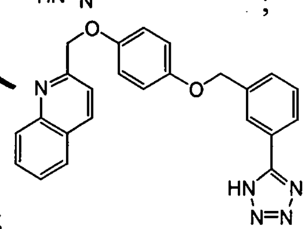
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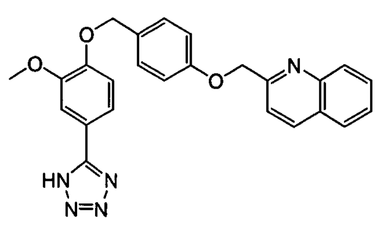
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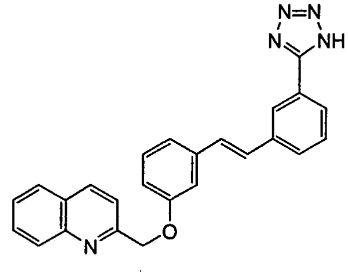
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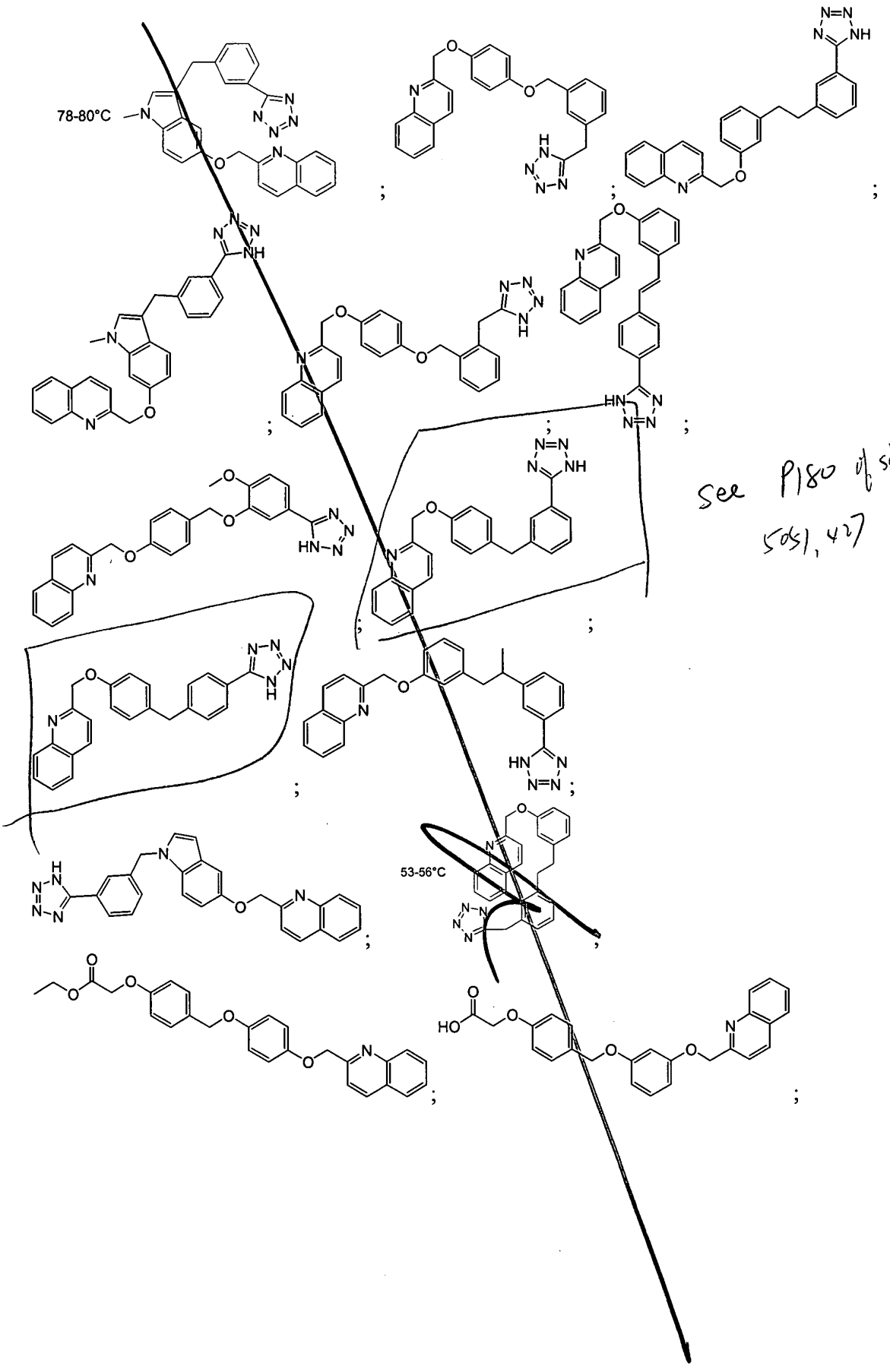
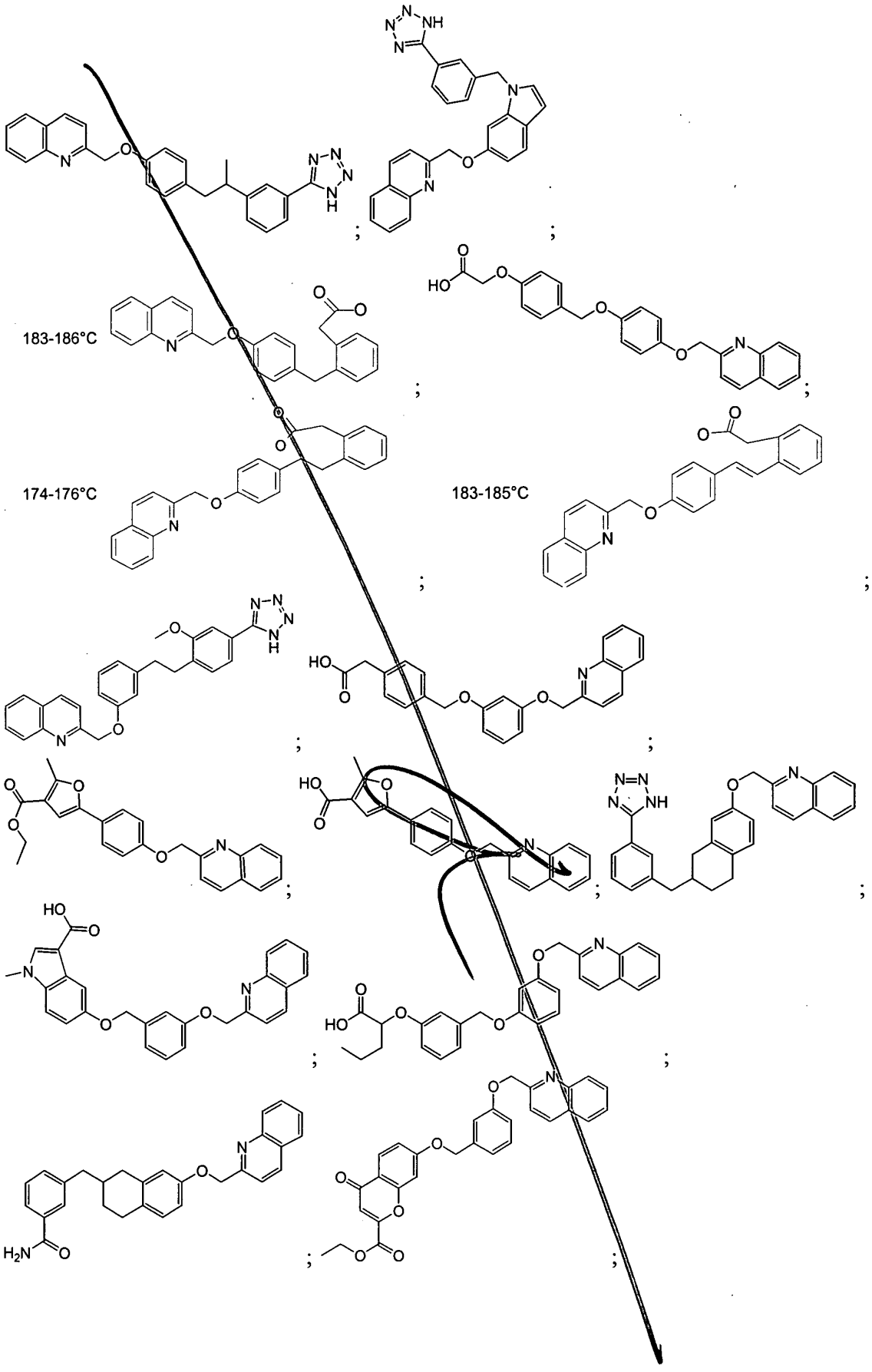


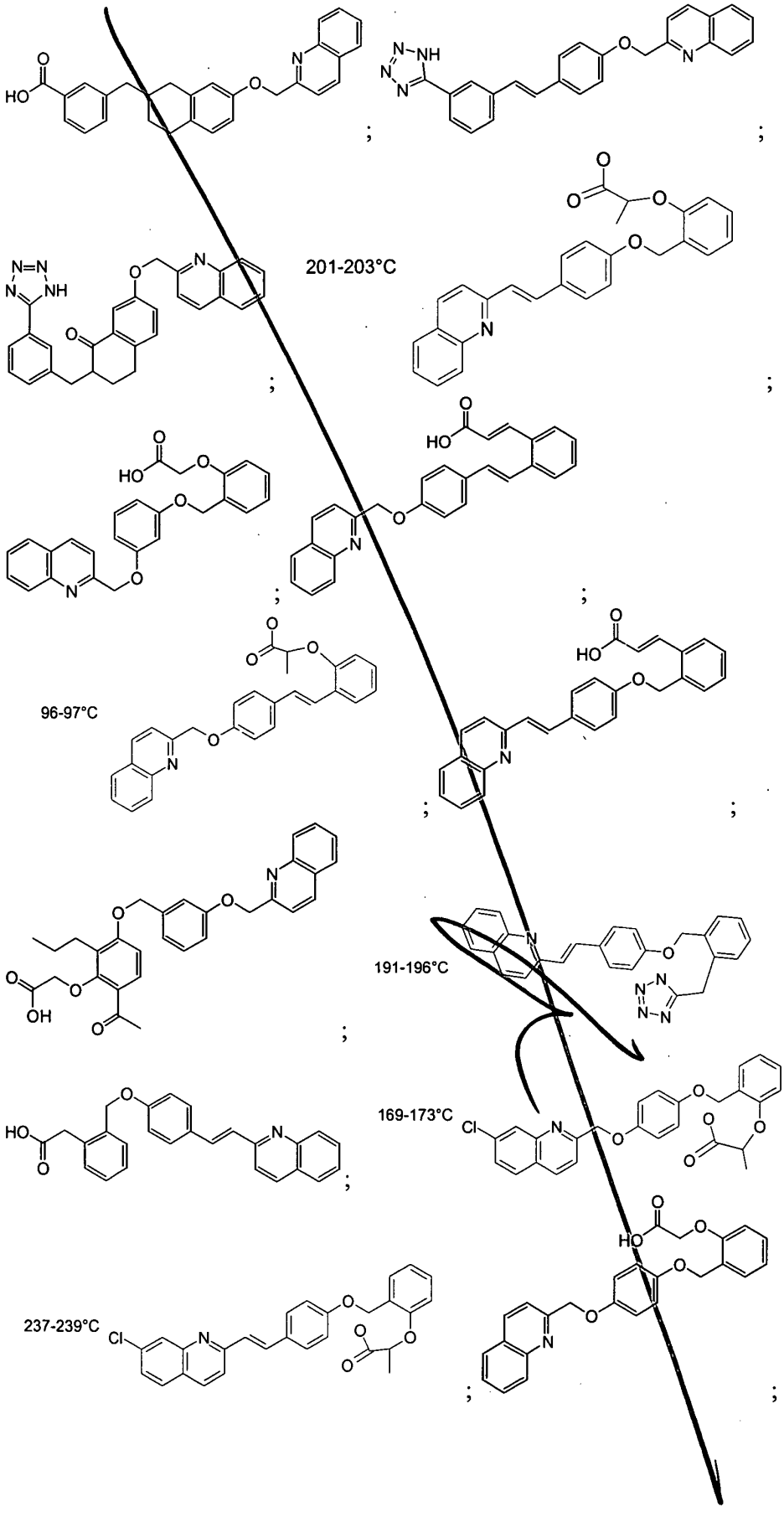
See P180 of structure search 5051,427



183-186°C

174-176°C

183-185°C



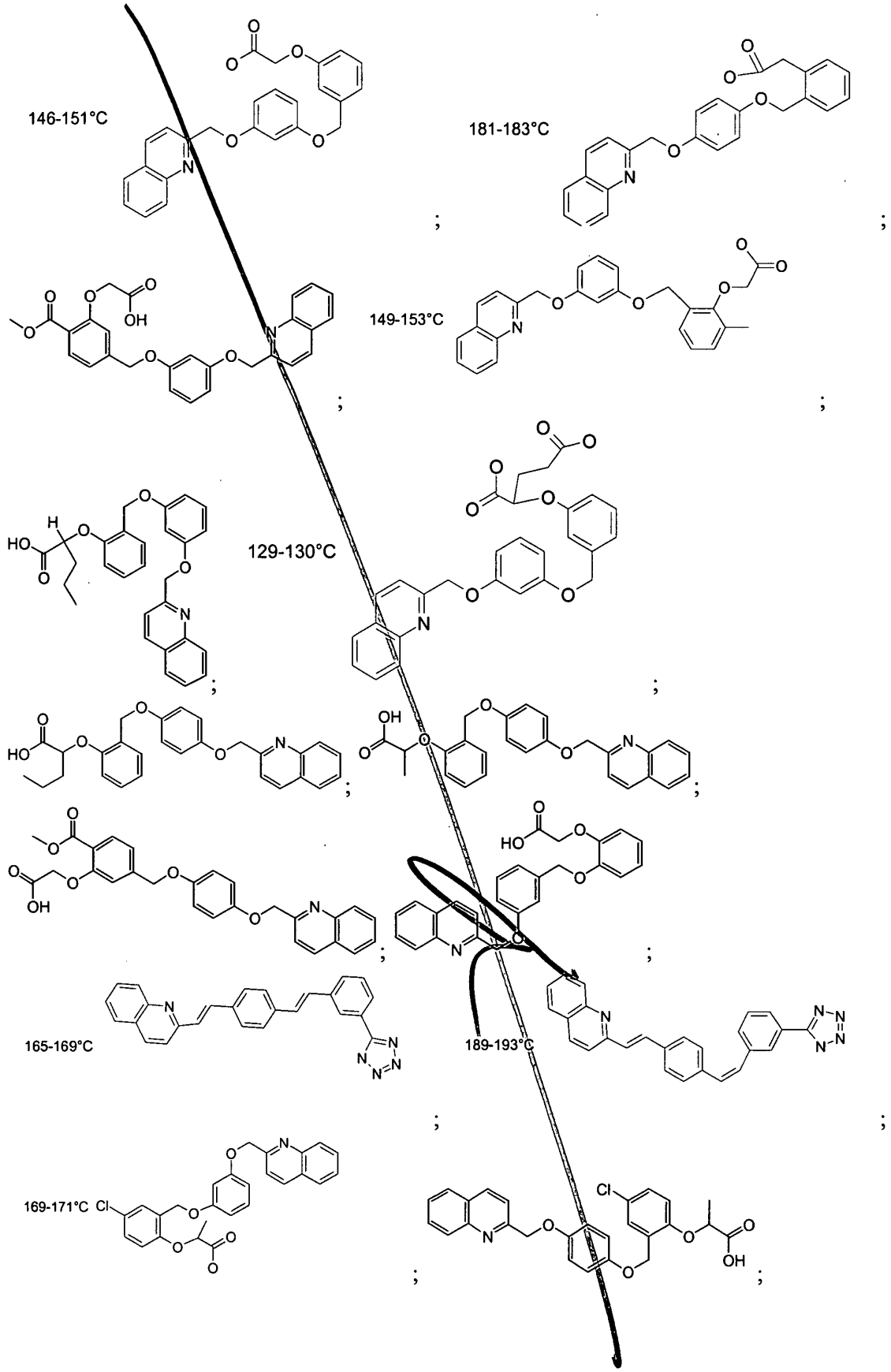
201-203°C

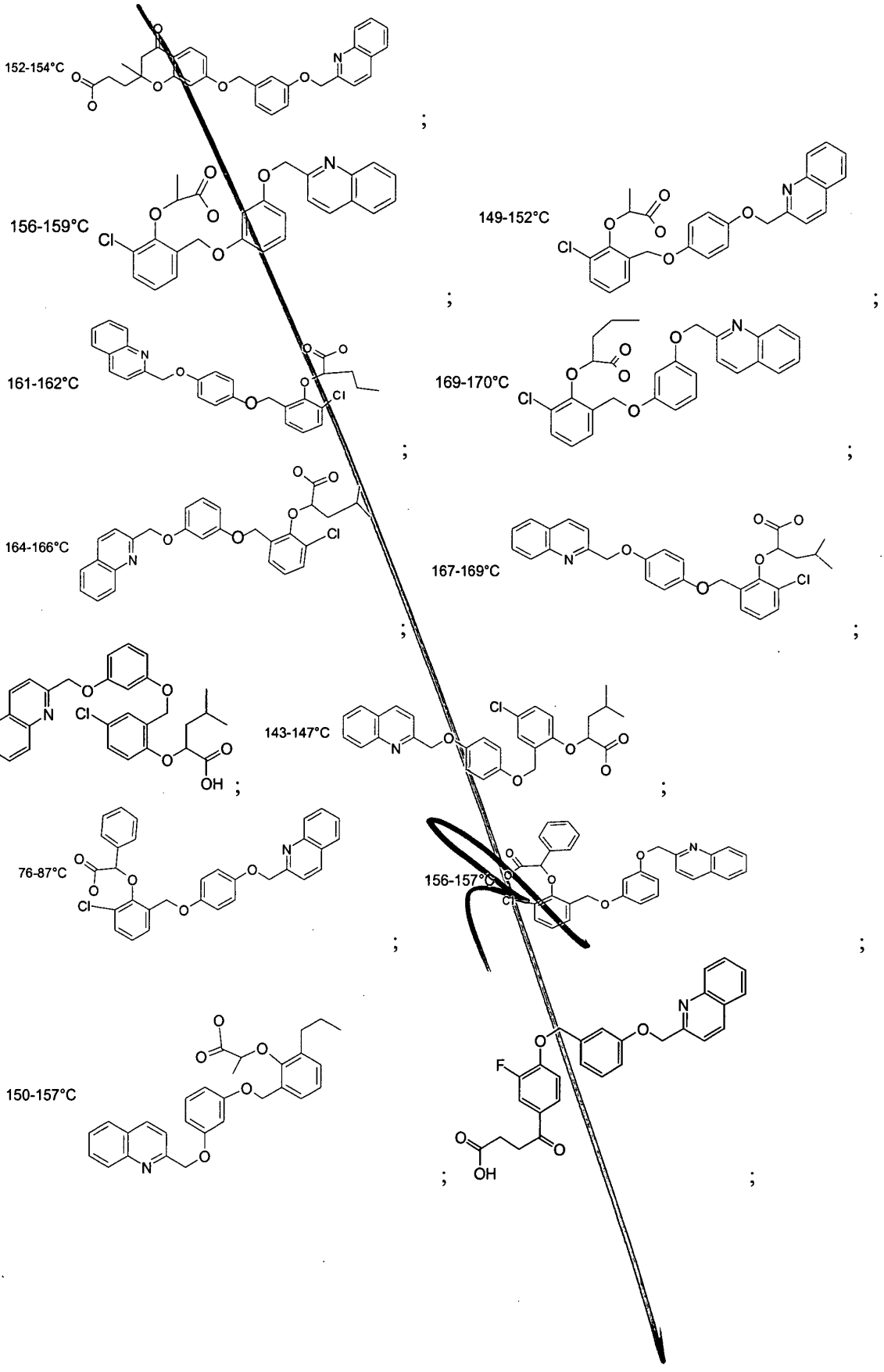
96-97°C

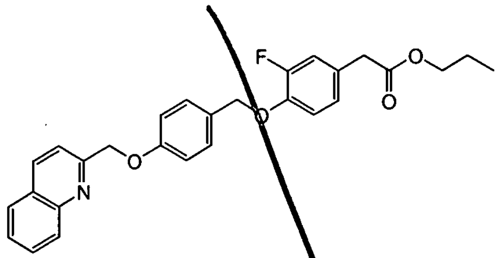
191-196°C

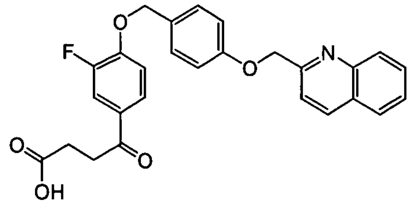
169-173°C

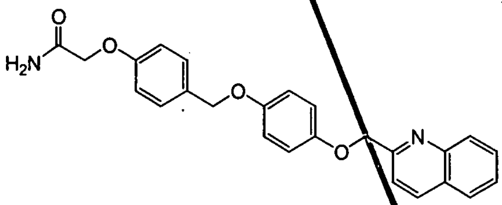
237-239°C

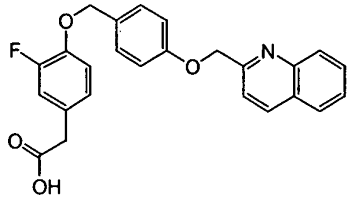

146-151°C
181-183°C
149-153°C
129-130°C
165-169°C
189-193°C
169-171°C Cl

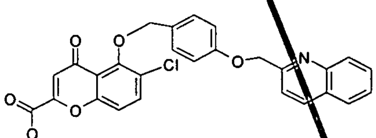

152-154°C
156-159°C
149-152°C
161-162°C
169-170°C
164-166°C
167-169°C
143-147°C
76-87°C
156-157°C
150-157°C

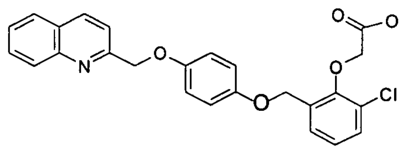
 ;

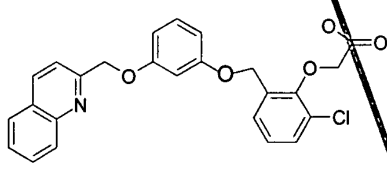
 ;

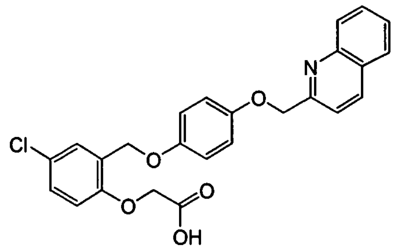
 ;

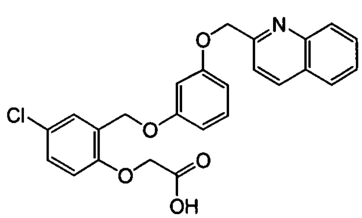
 ;

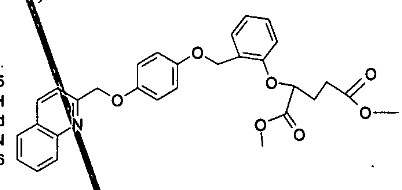
173-5°C (dec)  ;

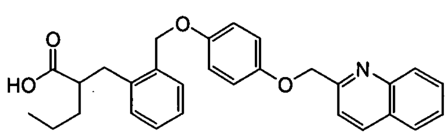
188-191°C  ;

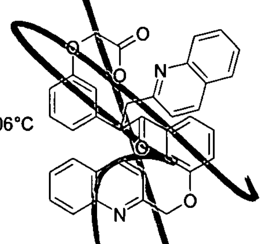
179-181°C  ;

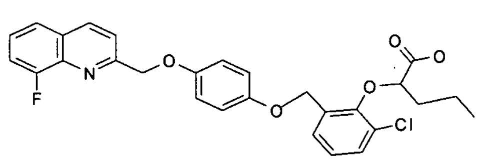
 ;

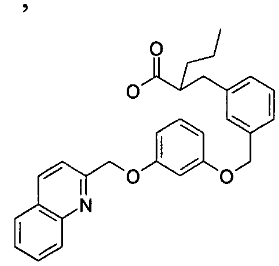
 ;

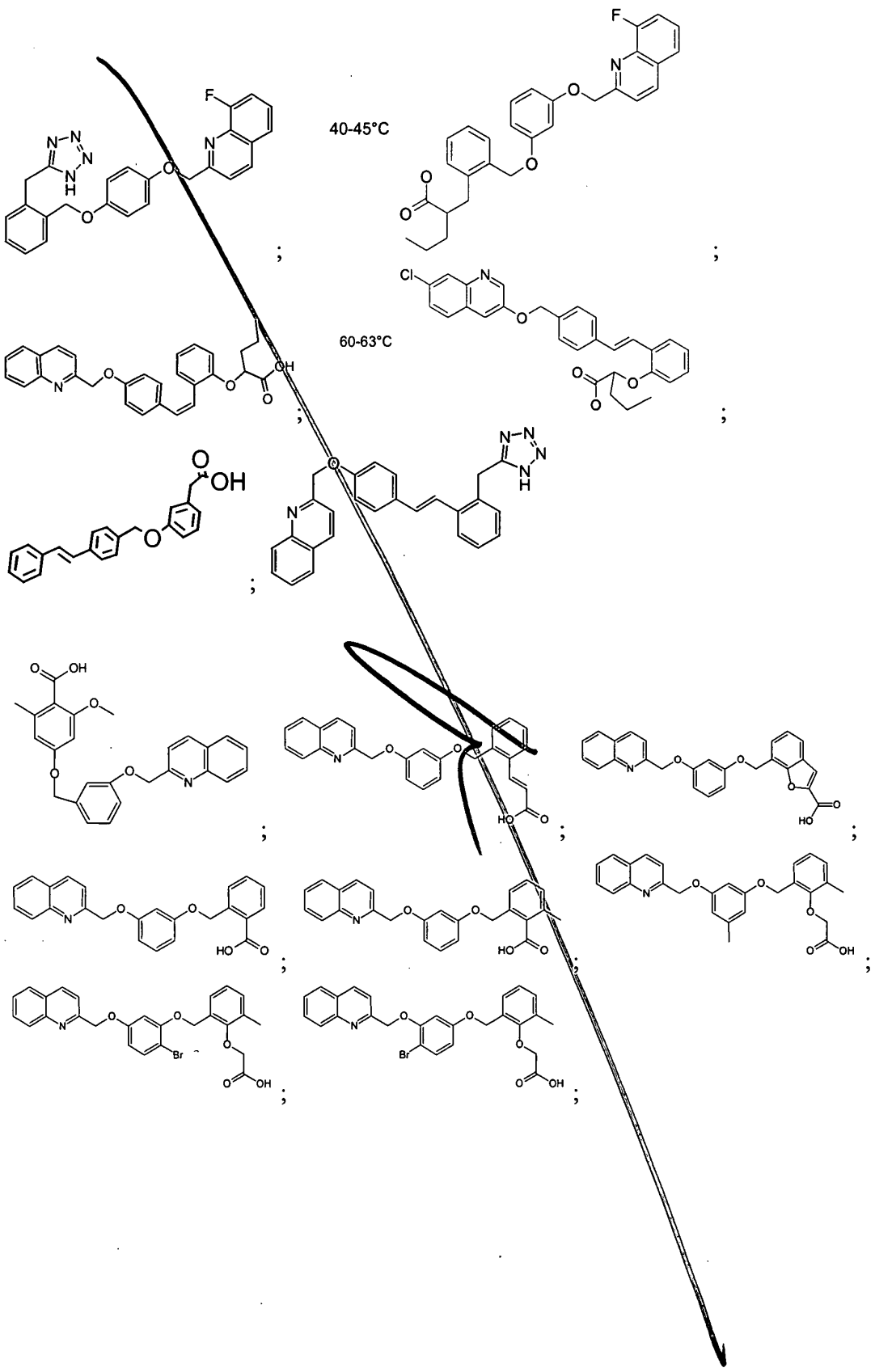
oil; CHN calc. C30H29NO7+0.5 H2O: C 68.69, H 5.76, N 2.67; found C 68.68, H 5.71, N 2.86  ;

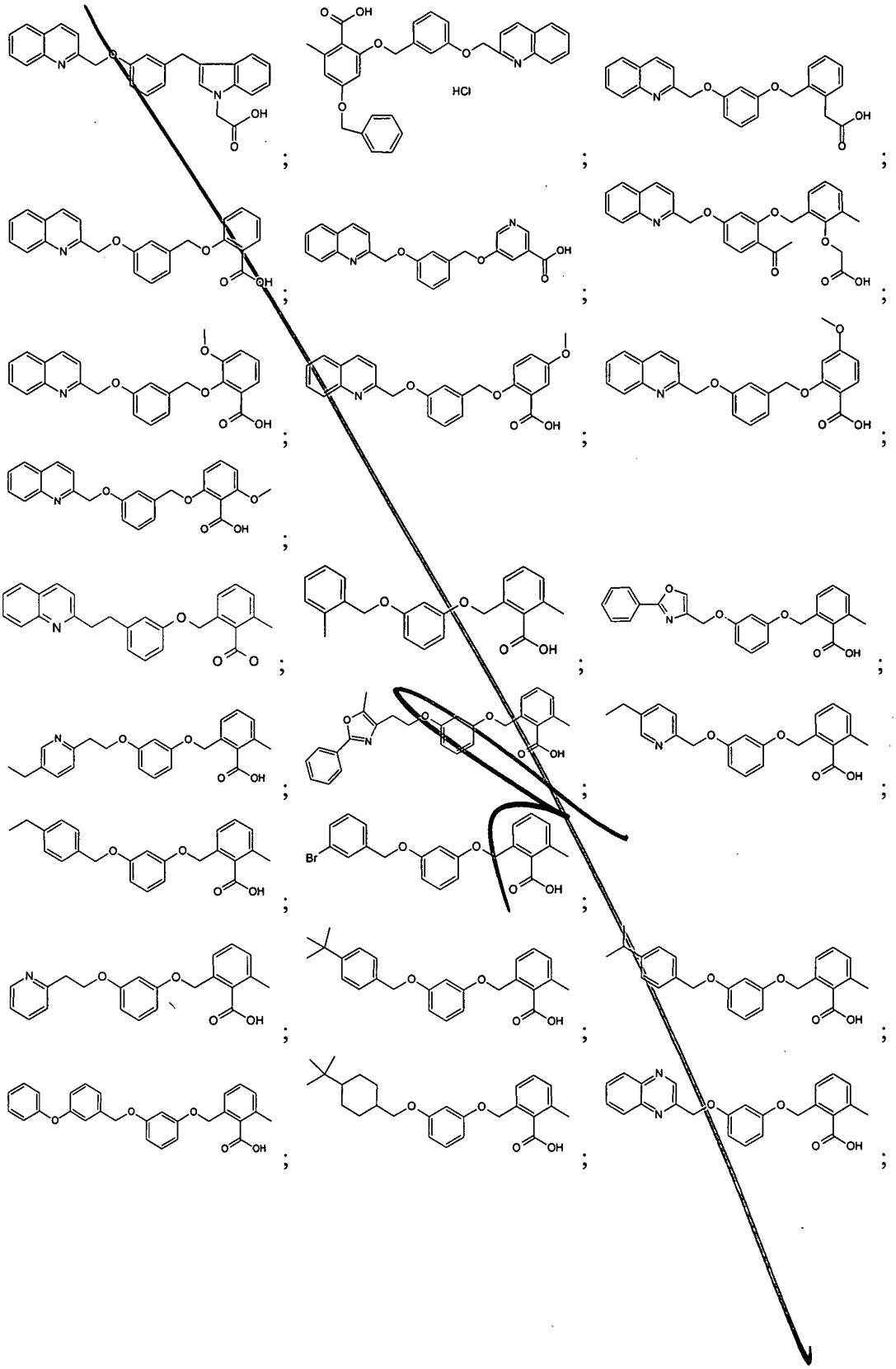
 ;

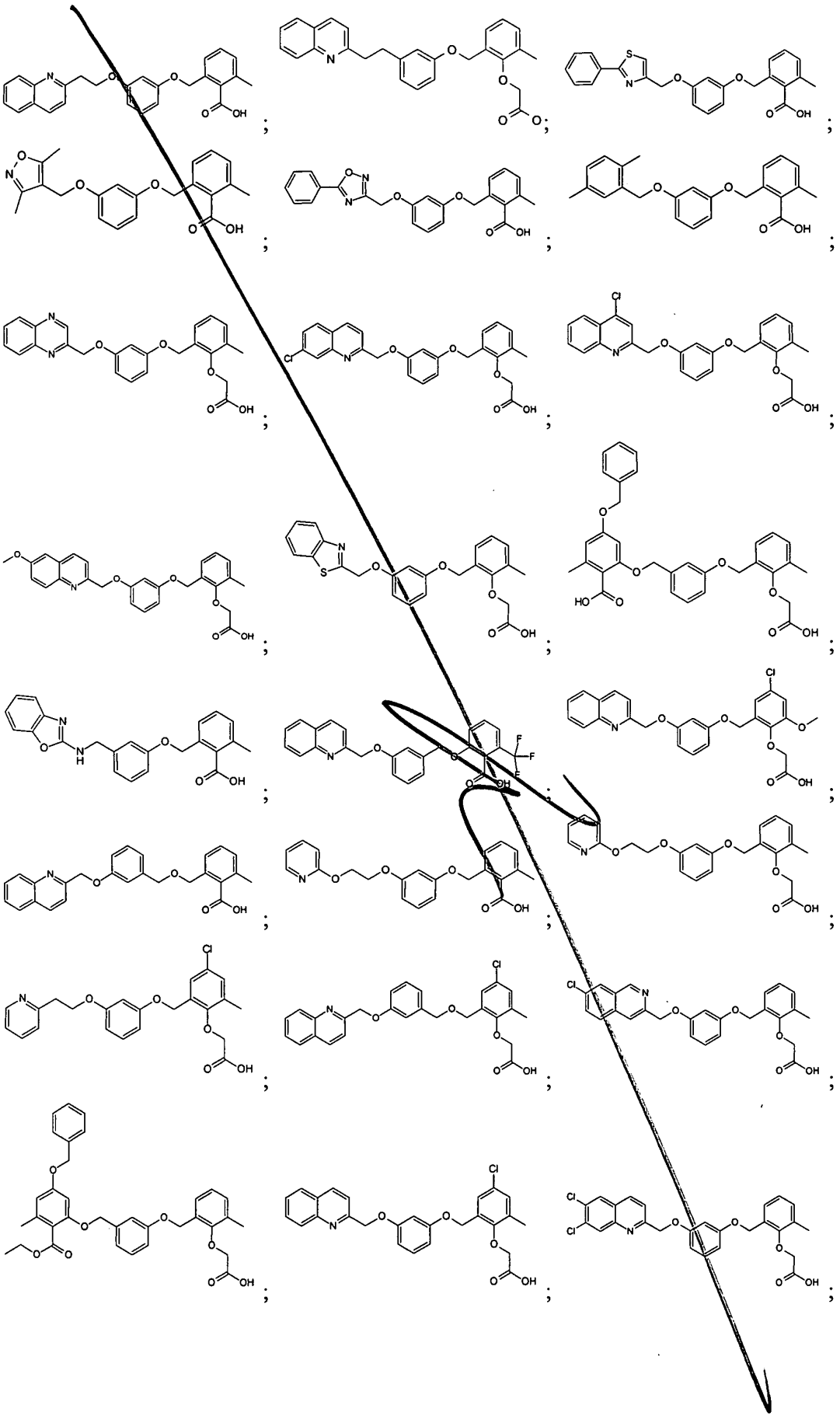
104-106°C  ;

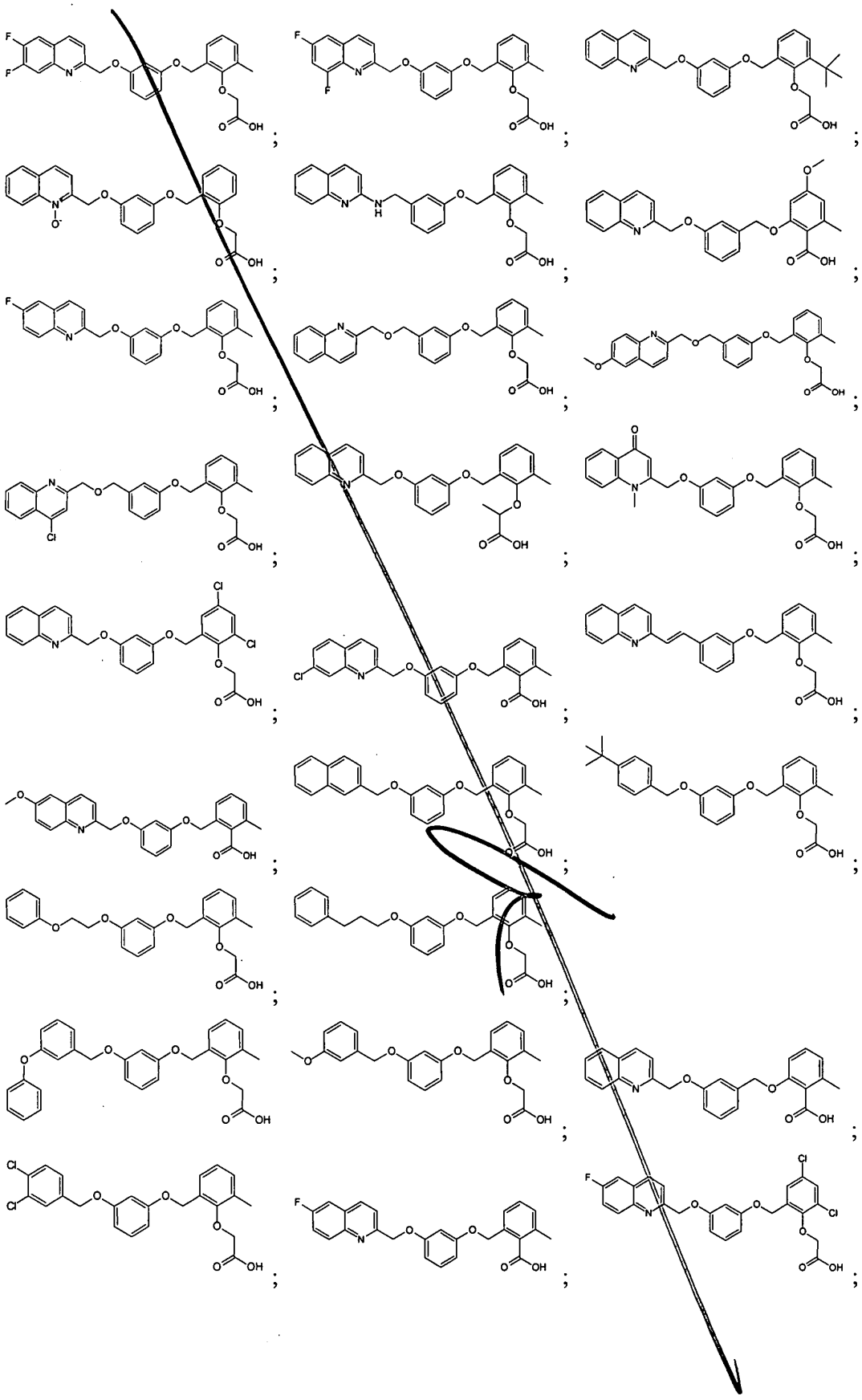
173-177°C  ;

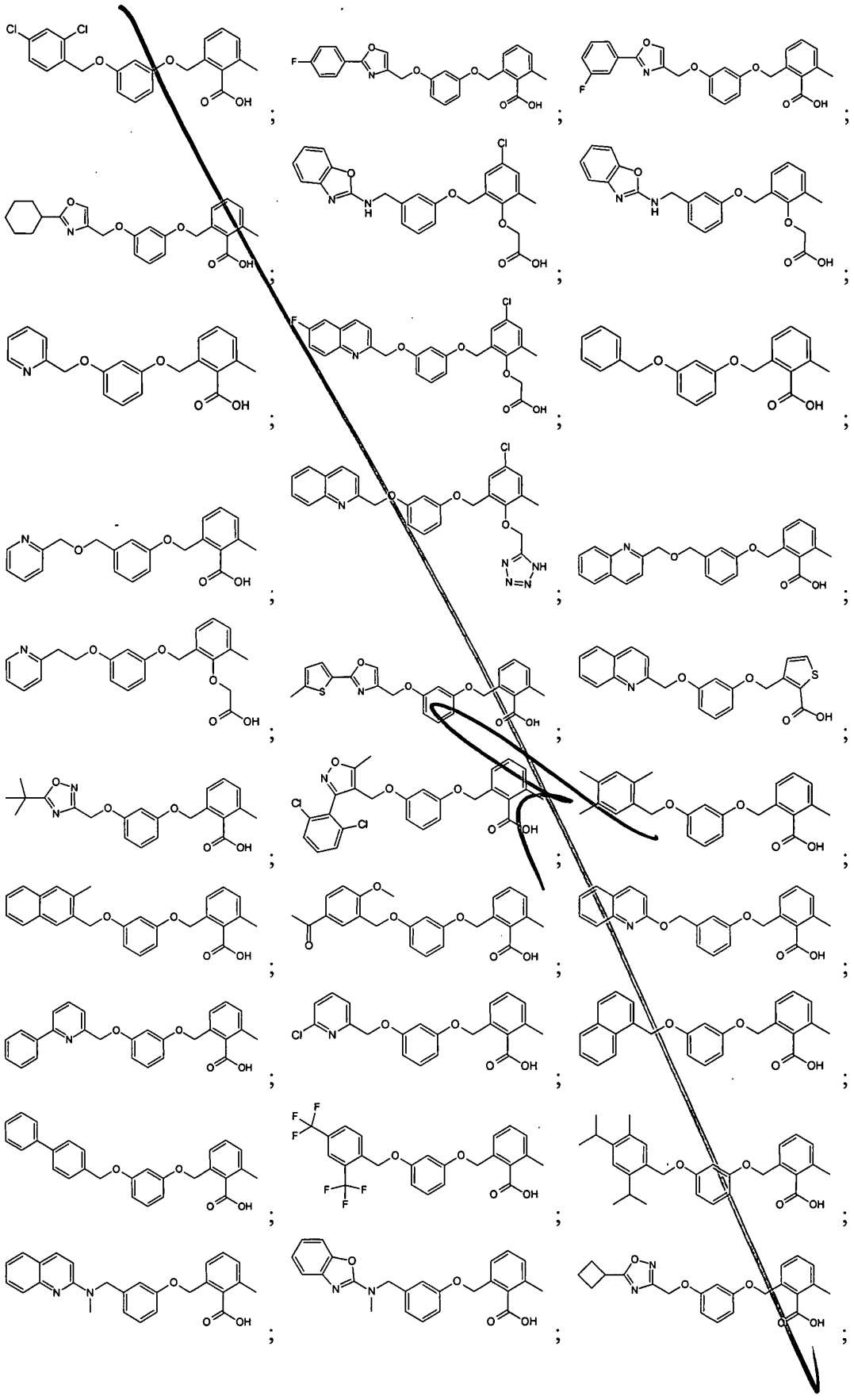
CHN calc. C29H29NO + 0.75 H2O: C 74.26, H 6.55, N 2.99; found C 73.97, H 6.31, N 2.89  ;

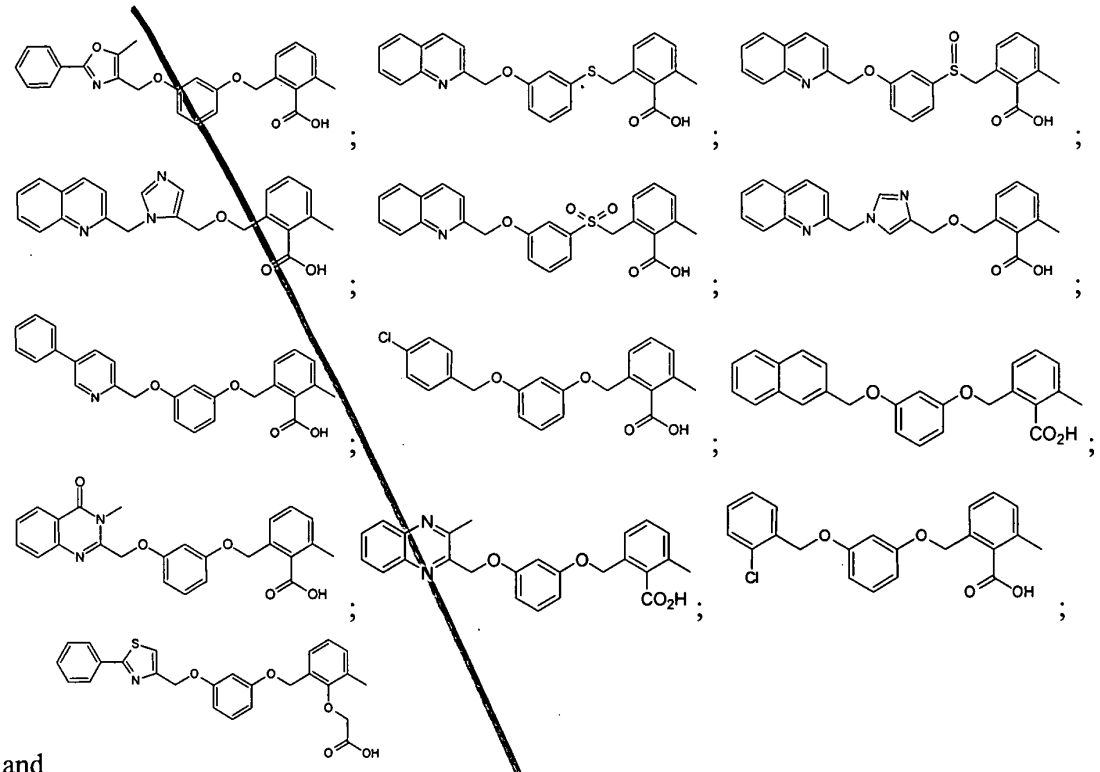

40-45°C
60-63°C


HCl
Br



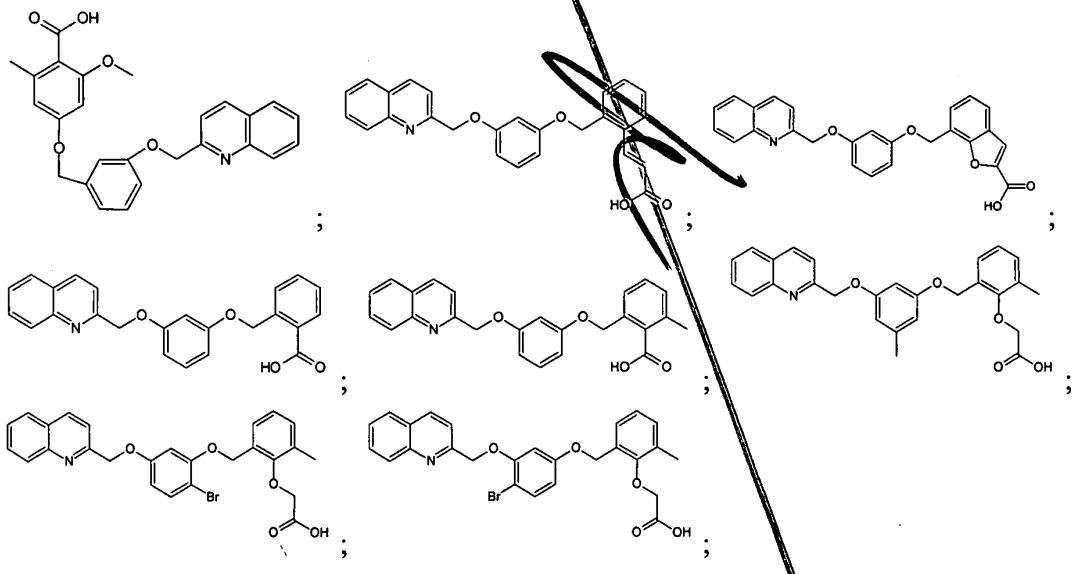


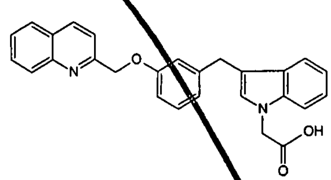




and

40. A compound according to claim 1 selected from the group consisting of

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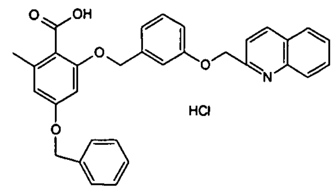
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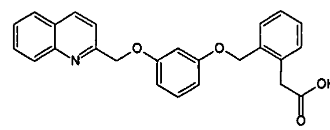
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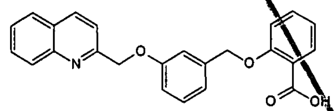
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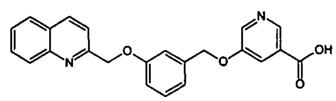
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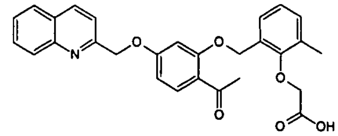
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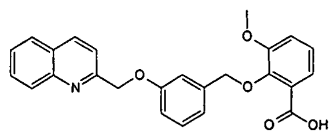
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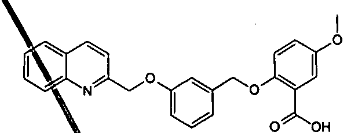
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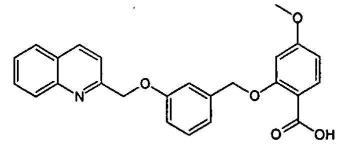
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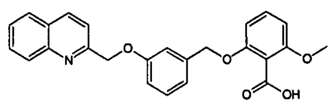
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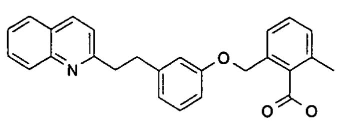
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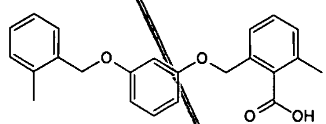
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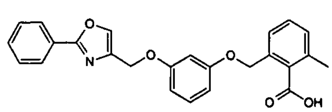
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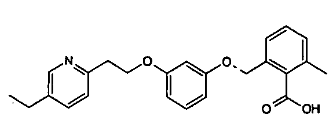
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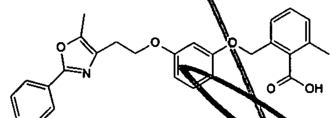
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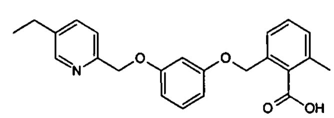
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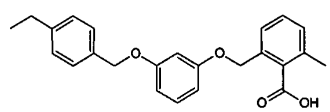
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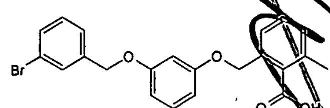
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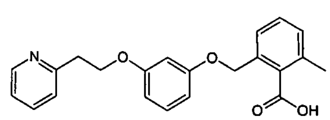
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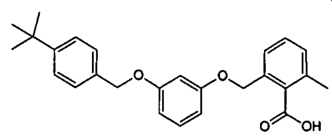
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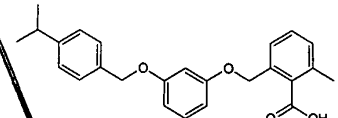
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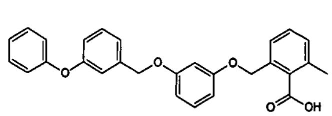
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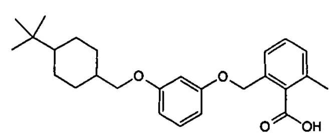
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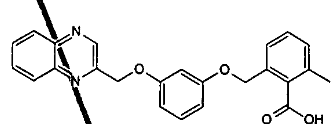
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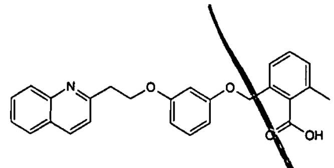
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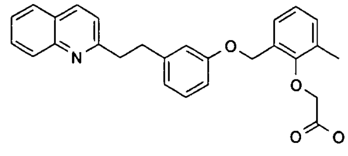
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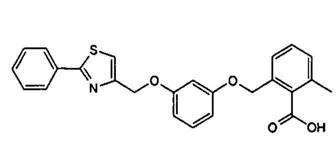
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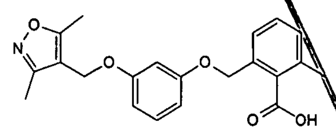
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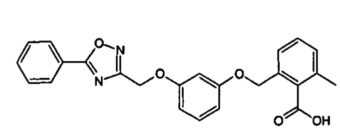
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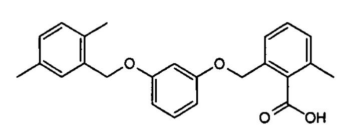
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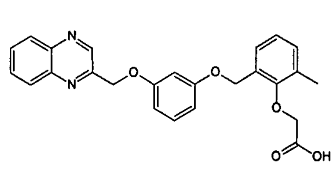
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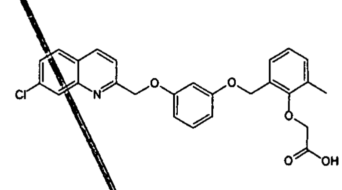
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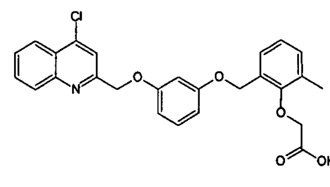
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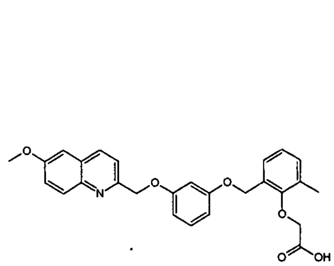
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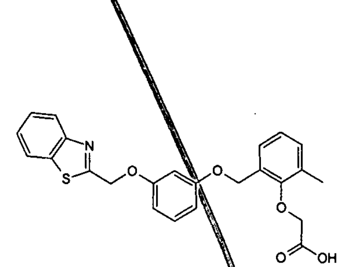
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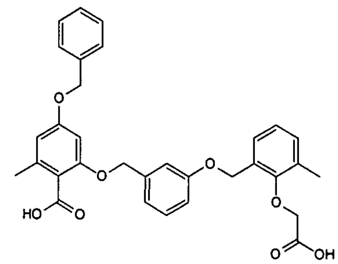
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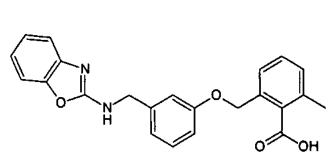
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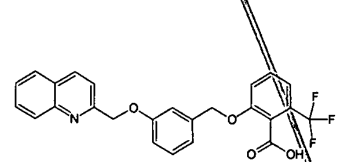
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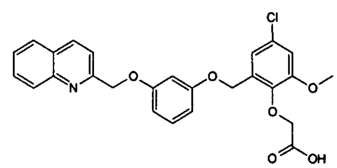
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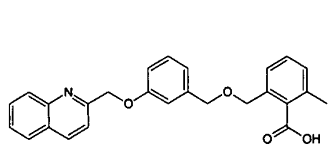
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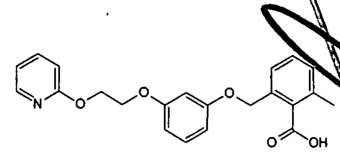
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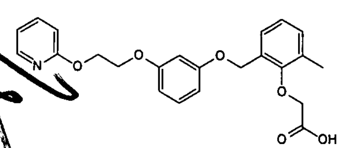
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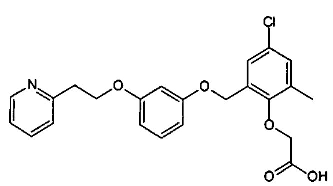
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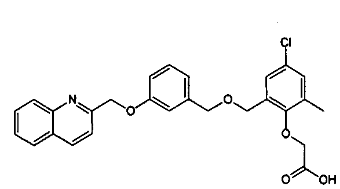
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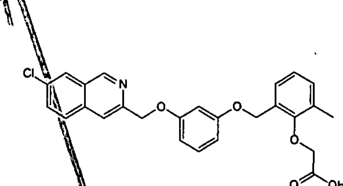
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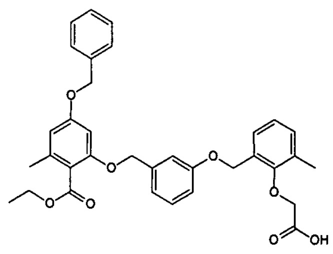
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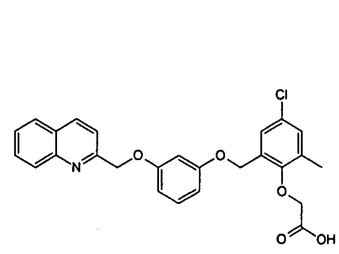
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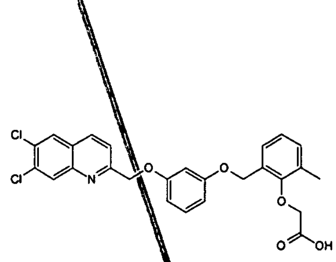
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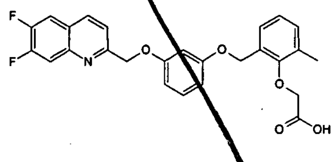
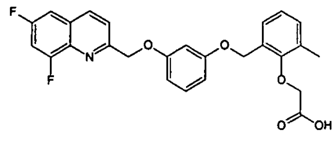
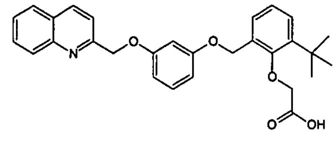
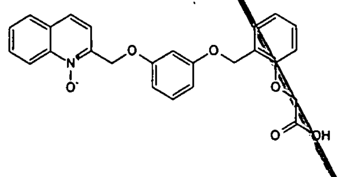
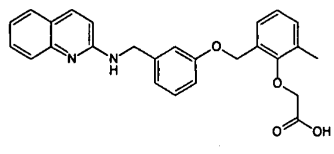
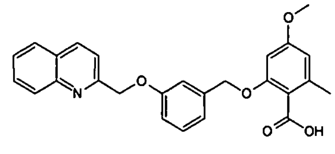
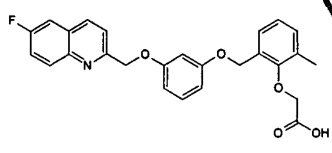
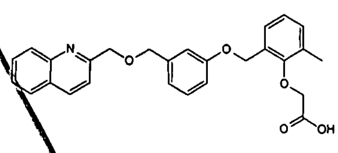
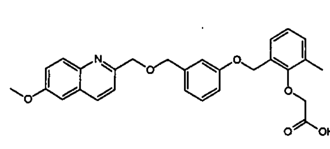
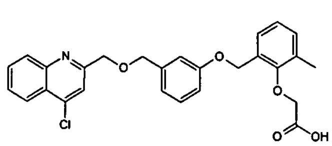
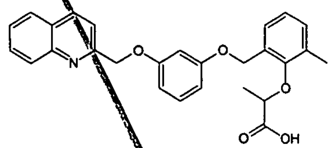
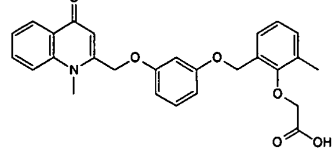
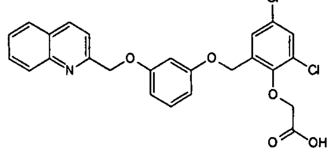
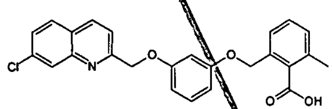
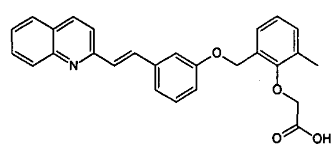
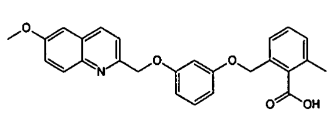
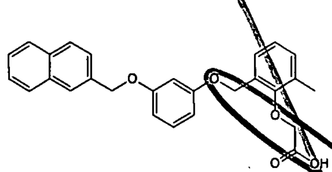
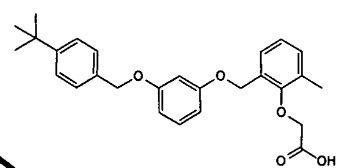
 ;  ;  ;

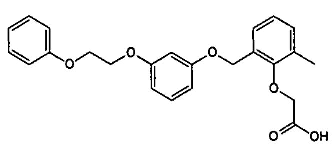
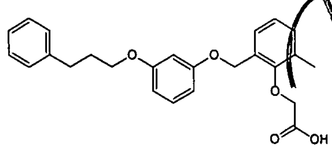
 ;  ;  ;

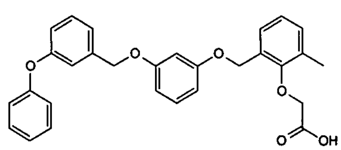
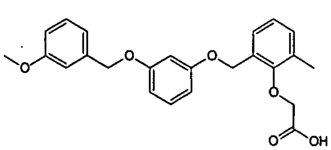
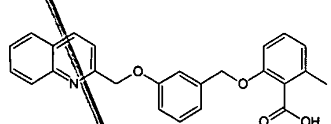
 ;  ;  ;

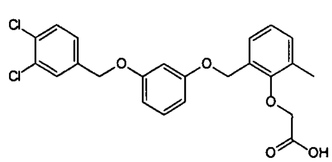
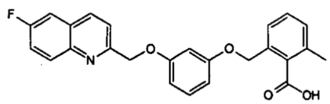
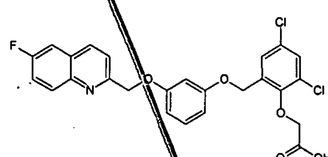
 ;  ;  ;

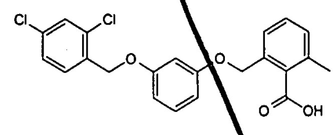
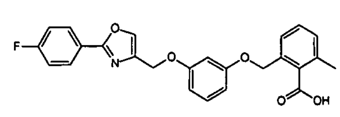
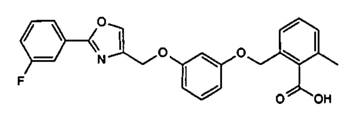
 ;  ;  ;

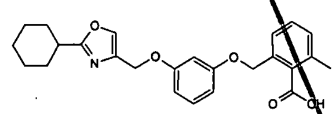
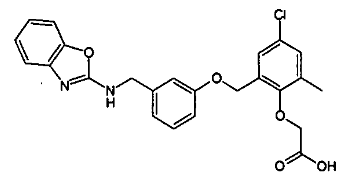
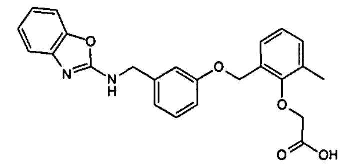
 ;  ;  ;

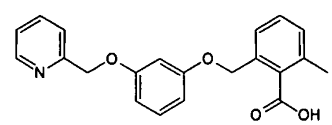
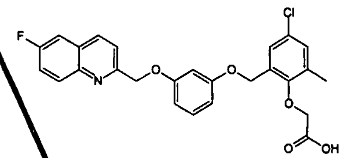
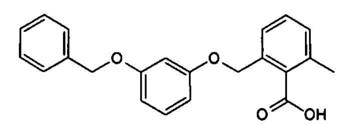
 ;  ;

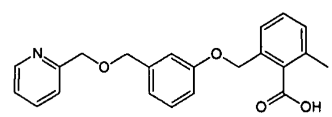
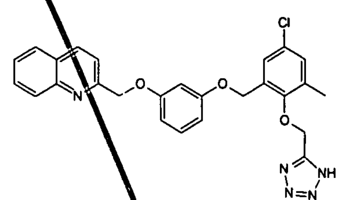
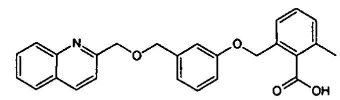
  ;  ;

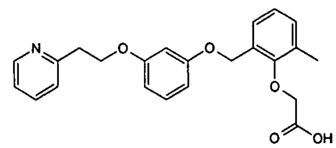
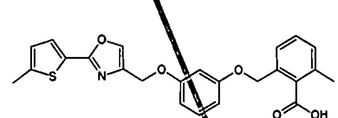
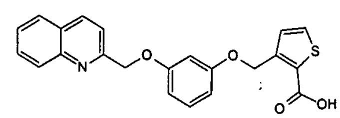
 ;  ;  ;

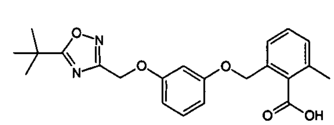
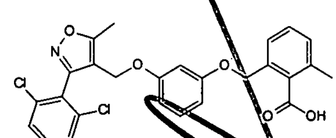
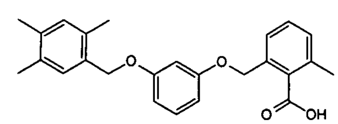
 ;  ;  ;

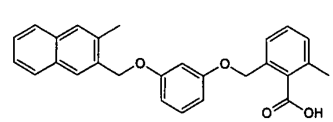
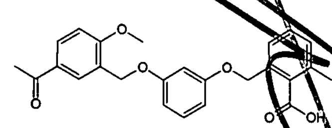
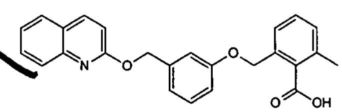
 ;  ;  ;

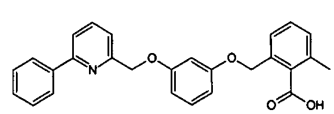
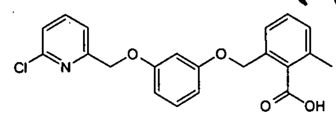
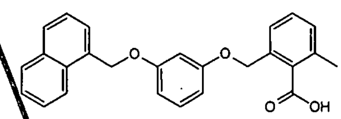
 ;  ;  ;

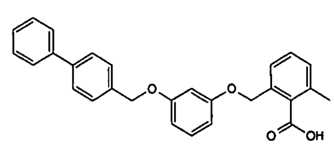
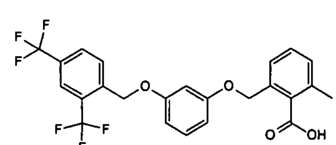
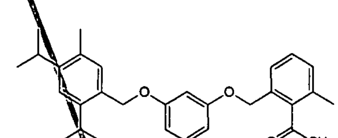
 ;  ;  ;

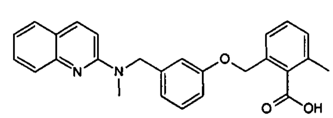
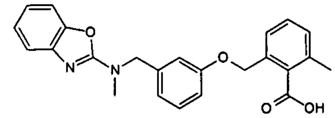
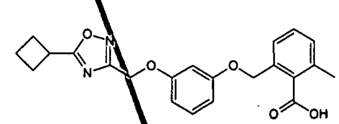
 ;  ;  ;

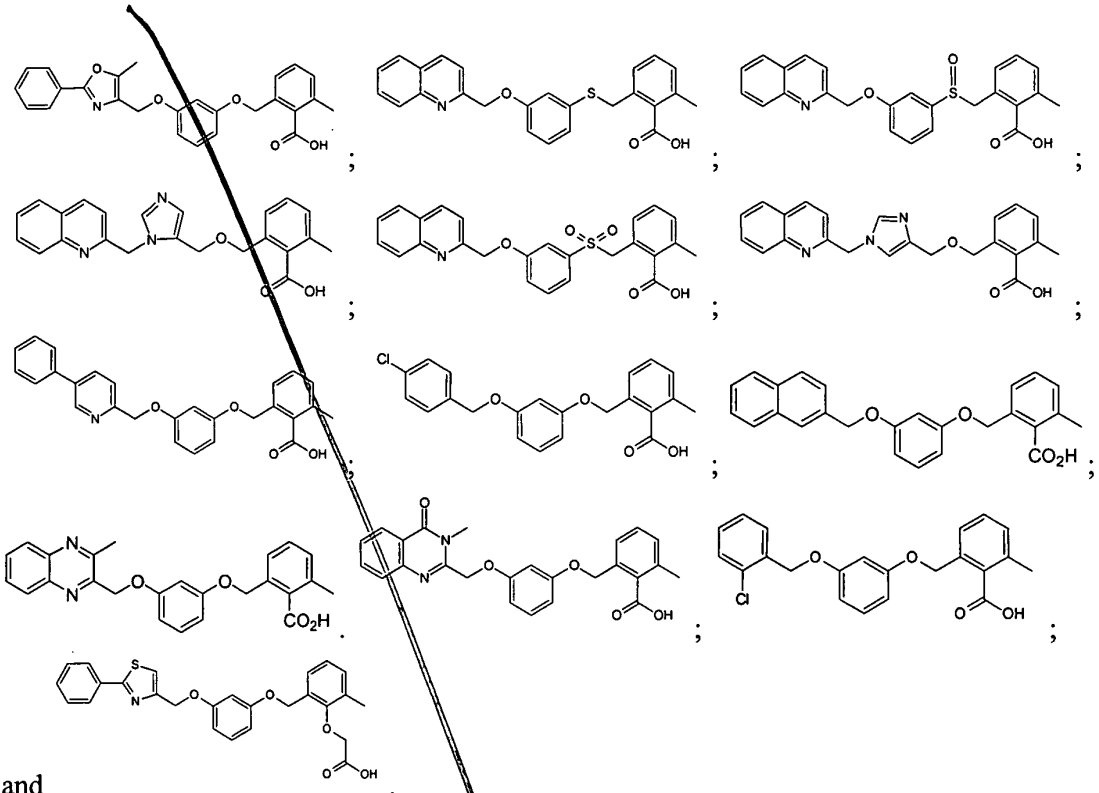
 ;  ;  ;

 ;  ;  ;

 ;  ;  ;

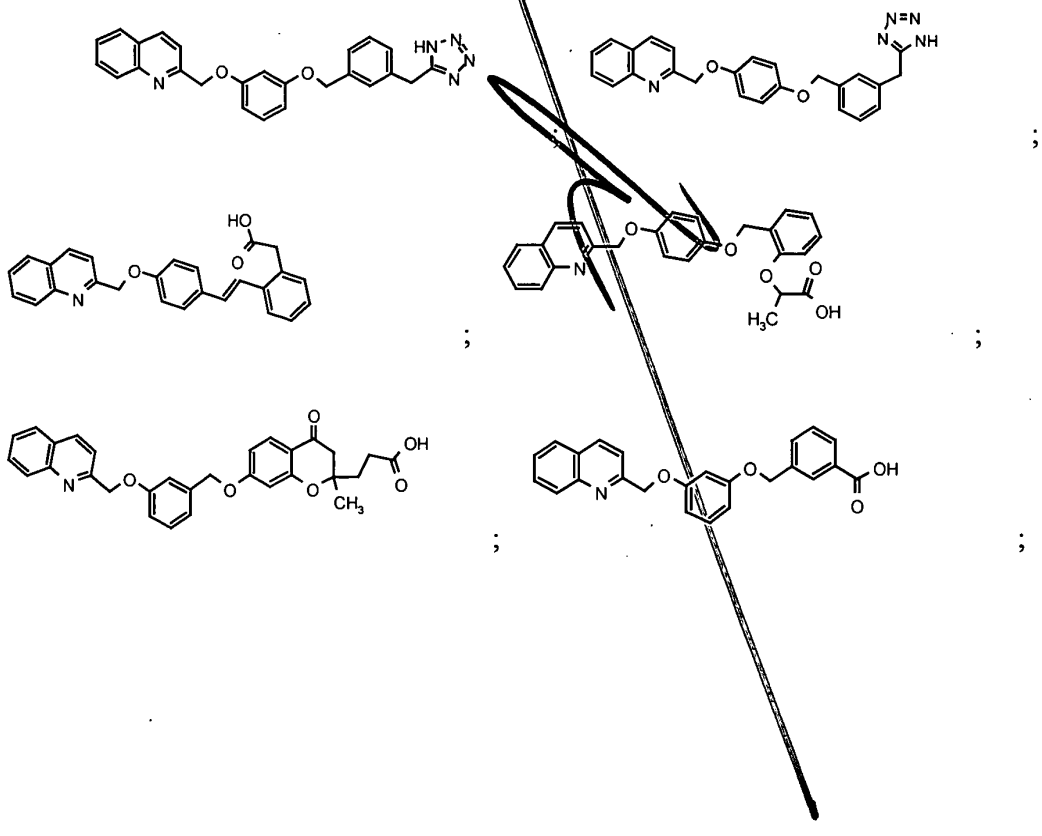
 ;  ;  ;

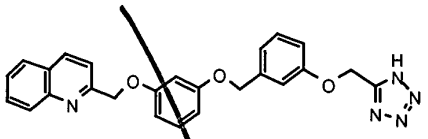
 ;  ;  ;



and

41. A compound according to claim 1 selected from the group consisting of

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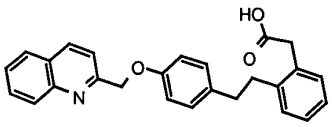
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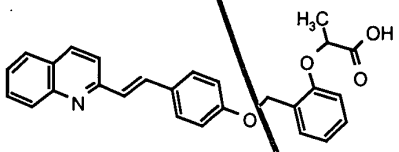
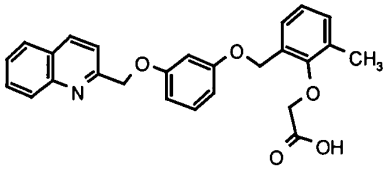
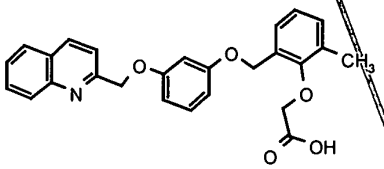


; and

42. A compound according to claim 1 selected from the group consisting of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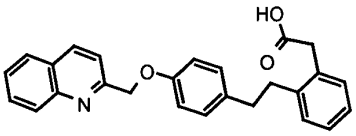
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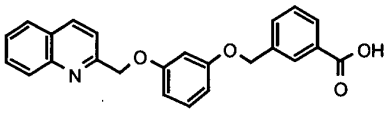
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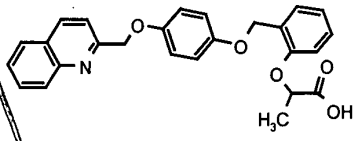
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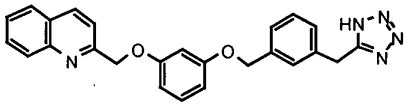
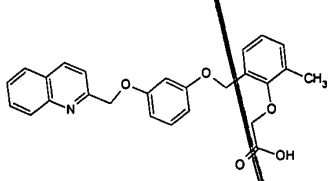

and

43. A compound according to claim 1 selected from the group consisting of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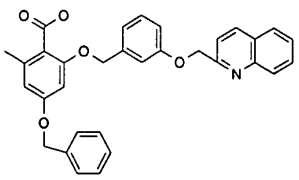
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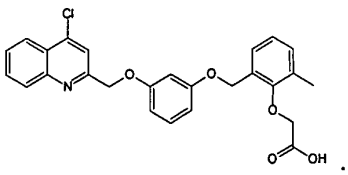
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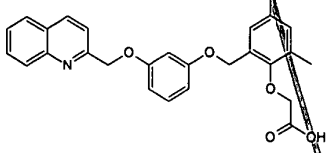
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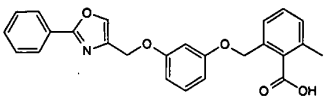
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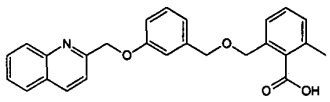
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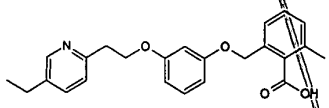
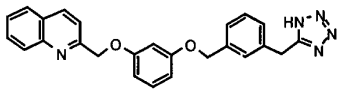
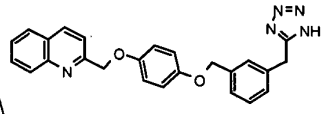
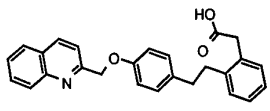

and .

44. A compound according to claim 1 selected from the group consisting of



; and .

45. A compound according to claim 1 selected from the group consisting of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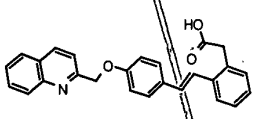
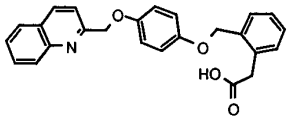
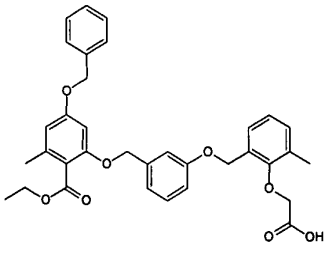
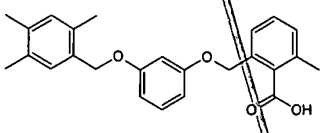
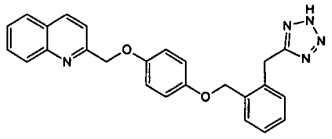
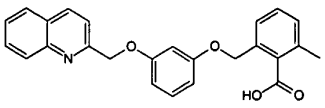

; and

.

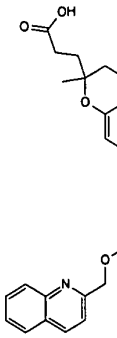
46. A compound according to claim 1 selected from the group consisting of


;

; and

.

47. A compound according to claim 1 selected from the group consisting of


.

48. A compound according to claim 1 of the formula



49. A pharmaceutical composition comprising a pharmaceutically acceptable amount of the compound according to claim 1 and a pharmaceutically acceptable carrier.

50. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound according to claim 1 having PPAR ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof.

51. A method according to claim 50 wherein the disease is associated with a physiological detrimental blood level of insulin, glucose, free fatty acids (FFA), or triclycerides.

52. The method according to claim 51, wherein the physiological disorder is hyperglycemia.

53. The method according to claim 52, wherein the hyperglycemia is diabetes

54. The method according to claim 52, wherein the hyperglycemia is Type II diabetes.

55. The method according to claim 51, wherein the physiological disorder is hyperinsulinism.

56. The method according to claim 55, wherein the hyperinsulinism is Syndrome X.

57. The method according to claim 51, wherein the physiological disorder is insulin resistance.

58. The method according to claim 51, wherein the physiological disorder is cardiovascular condition.

59. The method according to claim 58, wherein the cardiovascular condition is atherosclerosis.

60. The method according to claim 51, wherein the physiological disorder is hyperlipidemia.

61. The method according to claim 51, wherein the physiological disorder is hypertension.

62. The method according to claim 51, wherein the physiological disorder is an eating disorder.

63. The method according to claim 50 wherein the mediating is agonistic.

64. The method according to claim 50 wherein the mediating is antagonistic.

65. A method for mediating the activity of PPAR-γ receptor comprising contacting said PPAR-γ receptor with a compound of according to claim 1.

66. A pharmaceutical composition comprising a pharmaceutically acceptable amount of the compound according to claim 27 and a pharmaceutically acceptable carrier.

67. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound according to claim 27 having PPAR ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof.

68. A method according to claim 67 wherein the disease is associated with a physiological detrimental blood level of insulin, glucose, free fatty acids (FFA), or triclycerides.

69. The method according to claim 67, wherein the physiological disorder is hyperglycemia.

70. The method according to claim 69, wherein the hyperglycemia is diabetes

71. The method according to claim 69, wherein the hyperglycemia is Type II diabetes.

72. The method according to claim 67, wherein the physiological disorder is hyperinsulinism.

73. The method according to claim 72, wherein the hyperinsulinism is Syndrome X.

74. The method according to claim 67, wherein the physiological disorder is insulin resistance.

75. The method according to claim 67, wherein the physiological disorder is cardiovascular disorder.

76. The method according to claim 75, wherein the cardiovascular disorder is atherosclerosis.

77. The method according to claim 67, wherein the physiological disorder is hyperlipidemia.

78. The method according to claim 67, wherein the physiological disorder is hypertension.

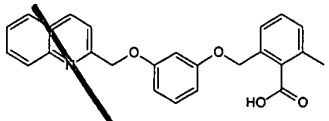
79. The method according to claim 67, wherein the physiological disorder is an eating disorder.

80. The method according to claim 67 wherein the mediating is agonistic.

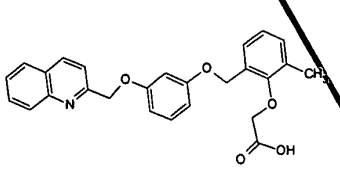
81. The method according to claim 67 wherein the mediating is antagonistic.

82. A method for mediating the activity of PPAR receptor comprising contacting said PPAR receptor with a compound of according to claim 27.

83. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPARα and PPARγ ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof, wherein said compound is of the formula



84. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPARα ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof, wherein said compound is selected from the group consisting of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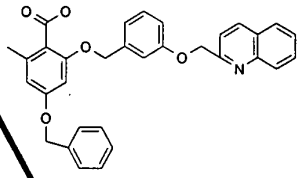
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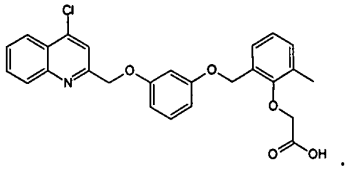
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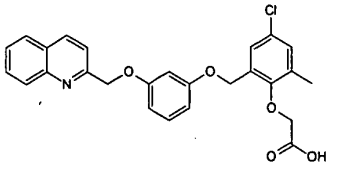
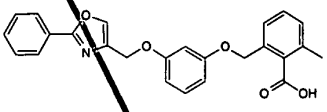

;

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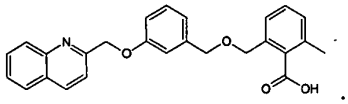
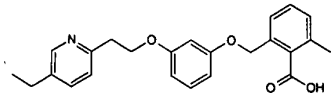
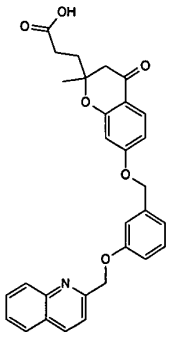

;
and

.

85. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPARδ ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof, wherein said compound is of the formula: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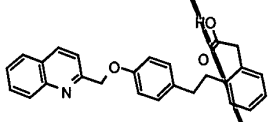
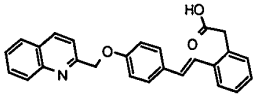
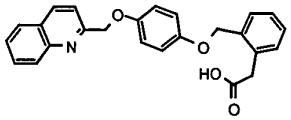
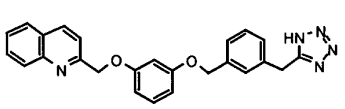
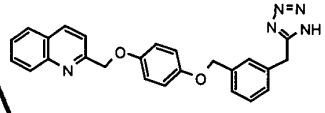
86. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPARα and PPARδ ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a

pharmaceutically acceptable salt thereof, wherein said compound is selected from the group consisting of:

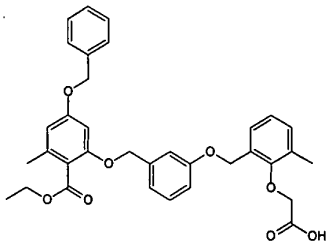
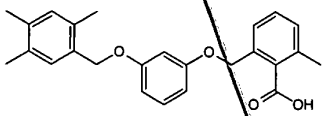
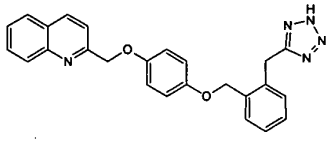
; ; and

87. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPARδ and PPARγ ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof, wherein said compound is selected from the group consisting of:

; and

88. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPARγ ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof, wherein said compound is selected from the group consisting of:

; ; and